

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 22, 2002, 15:45:16 : Search time 2663 Seconds
(without alignments)
8822.944 Million cell updates/sec

Title: US-09-374-967-1
Perfect score: 1086
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues
Total number of hits satisfying chosen parameters: 9285480

Minimum DB seq length: 20
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	21.8	2.0	50	1	PCT-US01-47856-2668 Sequence 2668, Ap
2	21.8	2.0	50	26	US-09-670-607-4175 Sequence 4175, Ap
3	21.2	2.0	42	1	PCT-US97-09289-13 Sequence 13, Appl
4	21.2	2.0	42	26	US-09-669-518B-13 Sequence 13, Appl
c 5	20.8	1.9	50	29	US-09-755-374A-13826 Sequence 13826, A
6	20.4	1.9	50	29	US-09-755-374A-17664 Sequence 17664, A
c 7	20.2	1.9	47	47	US-60-082-614-1242 Sequence 1242, Ap
c 8	20.2	1.9	50	1	PCT-US01-47856-5838 Sequence 5838, Ap
9	20.2	1.9	50	18	US-09-401-063-1708 Sequence 1708, Ap
c 10	20	1.8	46	32	US-09-843-620-1016 Sequence 1016, Ap
11	20	1.8	50	29	US-09-755-374A-11828 Sequence 11828, A
12	20	1.8	50	29	US-09-755-374A-11830 Sequence 11830, A
c 13	20	1.8	50	47	US-60-087-422-57 Sequence 57, Appl
c 14	20	1.8	50	48	US-60-090-170-1486 Sequence 1486, Ap
c 15	19.8	1.8	40	37	US-10-017-870-8 Sequence 8, Appl
c 16	19.8	1.8	47	18	US-09-422-978-1826 Sequence 1826, Ap
c 17	19.8	1.8	48	17	US-09-310-298-5598 Sequence 5598, Ap
c 18	19.8	1.8	48	17	US-09-310-298A-5598 Sequence 5598, Ap
c 19	19.8	1.8	49	49	US-60-108-395-1608 Sequence 1608, Ap
c 20	19.8	1.8	50	1	PCT-US01-47856-4009 Sequence 4009, Ap
21	19.8	1.8	50	1	PCT-US01-47856-4982 Sequence 4982, Ap
22	19.6	1.8	27	18	US-09-470-988-61 Sequence 61, Appl
c 23	19.6	1.8	48	8	US-08-483-033-3 Sequence 3, Appl
24	19.6	1.8	49	11	US-08-791-173-2176 Sequence 2176, Ap
25	19.6	1.8	49	40	US-60-011-001-2176 Sequence 2176, Ap
c 26	19.6	1.8	50	29	US-09-755-374A-5030 Sequence 5030, Ap
27	19.6	1.8	50	29	US-09-755-374A-21093 Sequence 21093, A
c 28	19.4	1.8	35	32	PCT-US01-47856-702 Sequence 702, App
c 29	19.4	1.8	50	1	PCT-US01-47856-5239 Sequence 5239, Ap
30	19.4	1.8	50	16	US-09-270-849B-121056 Sequence 121056,
c 31	19.4	1.8	50	29	US-09-755-374A-2173 Sequence 2173, Ap

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	33	19.2	1.8	42	17	US-09-364-847-22	Sequence 22, Appl	106	18.6	1.7	45	8	US-08-406-855-9	Sequence 9, Appl
	34	19.2	1.8	42	17	US-09-375-975-24	Sequence 24, Appl	107	18.6	1.7	45	18	US-09-474-551-14	Sequence 14, Appl
c	35	19.2	1.8	44	17	US-09-310-298-4121	Sequence 4121, Ap	108	18.6	1.7	45	27	US-09-688-415-14	Sequence 14, Appl
c	36	19.2	1.8	44	17	US-09-310-298A-4121	Sequence 4121, Ap	c 109	18.6	1.7	47	18	US-09-422-978-3865	Sequence 3865, Ap
c	37	19.2	1.8	47	18	US-09-422-978-816	Sequence 816, App	c 110	18.6	1.7	47	25	US-09-641-638-1169	Sequence 1169, Ap
c	38	19.2	1.8	47	18	US-09-422-978-3135	Sequence 3135, Ap	c 111	18.6	1.7	47	25	US-09-641-638-1336	Sequence 1336, Ap
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c	104	18.6	1.7	34	33	US-09-864-866-35	Sequence 35, Appl	c 177	18.2	1.7	50	23	US-09-611-931-3091	Sequence 3091, Ap

470	17.2	1.6	34	16	US-09-246-191-95	Sequence 95, Appl	543	17.2	1.6	50	1	PCT-US01-47856-6901	Sequence 6901, Ap
471	17.2	1.6	34	16	US-09-256-855-86	Sequence 86, Appl	544	17.2	1.6	50	1	PCT-US01-47856-7216	Sequence 7216, Ap
472	17.2	1.6	34	16	US-09-256-855-89	Sequence 89, Appl	545	17.2	1.6	50	1	PCT-US01-47856-7238	Sequence 7238, Ap
473	17.2	1.6	34	17	US-09-350-522-86	Sequence 86, Appl	546	17.2	1.6	50	16	US-09-270-849B-104384	Sequence 104384,
474	17.2	1.6	34	17	US-09-350-522-89	Sequence 89, Appl	547	17.2	1.6	50	16	US-09-274-553B-2916	Sequence 2916, Ap
475	17.2	1.6	34	18	US-09-417-244-86	Sequence 86, Appl	548	17.2	1.6	50	16	US-09-274-553B-2966	Sequence 2966, Ap
476	17.2	1.6	34	18	US-09-417-244-89	Sequence 89, Appl	549	17.2	1.6	50	16	US-09-274-553B-3003	Sequence 3003, Ap
477	17.2	1.6	34	30	US-09-791-171-95	Sequence 95, Appl	550	17.2	1.6	50	16	US-09-274-553B-3031	Sequence 3031, Ap
478	17.2	1.6	34	31	US-09-804-980-95	Sequence 95, Appl	551	17.2	1.6	50	16	US-09-274-553C-2916	Sequence 2916, Ap
479	17.2	1.6	34	35	US-09-943-443-95	Sequence 95, Appl	552	17.2	1.6	50	16	US-09-274-553C-2966	Sequence 2966, Ap
480	17.2	1.6	35	64	US-60-253-634-30328	Sequence 30328, A	553	17.2	1.6	50	16	US-09-274-553C-3003	Sequence 3003, Ap
481	17.2	1.6	35	64	US-60-255-592-30328	Sequence 30328, A	554	17.2	1.6	50	16	US-09-274-553C-3031	Sequence 3031, Ap
482	17.2	1.6	37	1	PCT-US96-14563A-8	Sequence 8, Appl	555	17.2	1.6	50	17	US-09-342-217-1616	Sequence 1616, Ap
483	17.2	1.6	37	1	PCT-US98-04610-9	Sequence 9, Appl	556	17.2	1.6	50	17	US-09-342-217-1616	Sequence 1616, Ap
484	17.2	1.6	37	14	US-09-026-593-9	Sequence 9, Appl	557	17.2	1.6	50	18	US-09-401-063-1649	Sequence 1649, Ap
485	17.2	1.6	38	17	US-09-371-772B-13696	Sequence 13696, A	558	17.2	1.6	50	18	US-09-401-063-1749	Sequence 1749, Ap
486	17.2	1.6	38	26	US-09-670-607-2215	Sequence 2215, Ap	559	17.2	1.6	50	18	US-09-401-063-1758	Sequence 1758, Ap
487	17.2	1.6	38	28	US-09-708-690-15973	Sequence 15973, A	560	17.2	1.6	50	18	US-09-472-865D-399	Sequence 399, App
488	17.2	1.6	38	33	US-09-870-161-15973	Sequence 15973, A	561	17.2	1.6	50	19	US-09-504-231A-2916	Sequence 2916, Ap
489	17.2	1.6	38	37	US-10-017-974-16005	Sequence 16005, A	562	17.2	1.6	50	19	US-09-504-231A-2966	Sequence 2966, Ap
490	17.2	1.6	39	17	US-09-310-298-3771	Sequence 3771, Ap	563	17.2	1.6	50	19	US-09-504-231A-3003	Sequence 3003, Ap
491	17.2	1.6	39	17	US-09-310-298A-3771	Sequence 3771, Ap	564	17.2	1.6	50	19	US-09-504-231A-3031	Sequence 3031, Ap
492	17.2	1.6	39	18	US-09-436-762A-35698	Sequence 35698, A	565	17.2	1.6	50	23	US-09-611-931-2916	Sequence 2916, Ap
493	17.2	1.6	39	28	US-09-701-926B-23	Sequence 23, Appl	566	17.2	1.6	50	23	US-09-611-931-2966	Sequence 2966, Ap
494	17.2	1.6	39	74	US-60-353-790-2859	Sequence 2859, Ap	567	17.2	1.6	50	23	US-09-611-931-3031	Sequence 3031, Ap
495	17.2	1.6	40	1	PCT-US00-29976-6	Sequence 6, Appl	568	17.2	1.6	50	26	US-09-611-931-3031	Sequence 3031, Ap
496	17.2	1.6	40	1	PCT-US00-29976-39	Sequence 39, Appl	569	17.2	1.6	50	26	US-09-670-607-4160	Sequence 4160, Ap
497	17.2	1.6	40	1	PCT-US94-13499-51	Sequence 51, Appl	570	17.2	1.6	50	29	US-09-726-17A-123	Sequence 123, App
498	17.2	1.6	40	5	US-08-156-571-51	Sequence 51, Appl	571	17.2	1.6	50	29	US-09-755-374A-3230	Sequence 3230, Ap
499	17.2	1.6	40	8	US-08-478-299-51	Sequence 51, Appl	572	17.2	1.6	50	29	US-09-755-374A-12710	Sequence 12710, A
500	17.2	1.6	41	16	US-09-297-269-36	Sequence 36, Appl	573	17.2	1.6	50	29	US-09-755-374A-12920	Sequence 12920, A
501	17.2	1.6	41	28	US-09-704-424-16633	Sequence 16633, A	574	17.2	1.6	25	17	US-09-396-196F-2895	Sequence 2895, A
502	17.2	1.6	42	1	PCT-US01-06096-30	Sequence 30, Appl	575	17.2	1.6	25	17	US-09-396-196F-53686	Sequence 53686, A
503	17.2	1.6	42	18	US-09-404-520-30728	Sequence 30728, A	576	17.2	1.6	25	17	US-09-396-196F-53686	Sequence 53686, A
504	17.2	1.6	44	24	US-09-623-932A-14	Sequence 14, Appl	577	17.2	1.6	25	17	US-09-396-196F-90399	Sequence 90399, A
505	17.2	1.6	45	8	US-08-466-601-119	Sequence 119, App	578	17.2	1.6	25	26	US-09-660-220-76225	Sequence 76225, A
506	17.2	1.6	45	8	US-08-466-601A-119	Sequence 119, App	579	17.2	1.6	25	35	US-09-953-115-19483	Sequence 19483, A
507	17.2	1.6	45	14	US-09-084-691-223	Sequence 223, App	580	17.2	1.6	25	35	US-09-956-584-146091	Sequence 146091,
508	17.2	1.6	45	14	US-09-084-691B-223	Sequence 223, App	581	17.2	1.6	25	35	US-09-956-584-154244	Sequence 154244,
509	17.2	1.6	45	17	US-09-310-298-4349	Sequence 4349, Ap	582	17.2	1.6	25	35	US-09-956-584-354961	Sequence 354961,
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512	17.2	1.6	46	18	US-09-404-520-44015	Sequence 44015, A	585	17.2	1.6	25	62	US-60-234-017-177425	Sequence 177425,
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514	17.2	1.6	47	17	US-09-310-298-4476	Sequence 4476, Ap	587	17.2	1.6	25	62	US-60-234-017-381405	Sequence 381405,
515	17.2	1.6	47	17	US-09-310-298A-4476	Sequence 4476, Ap	588	17.2	1.6	25	62	US-60-234-017-444860	Sequence 444860,
516	17.2	1.6	47	18	US-09-422-978-3167	Sequence 3167, Ap	589	17.2	1.6	25	62	US-60-234-017-575920	Sequence 575920,
517	17.2	1.6	47	25	US-09-641-638-1170	Sequence 1170, Ap	590	17.2	1.6	25	62	US-60-234-049-13777	Sequence 13777, A
518	17.2	1.6	47	26	US-09-671-317-905	Sequence 905, App	591	17.2	1.6	25	62	US-60-234-049-103243	Sequence 103243,
519	17.2	1.6	47	32	US-09-853-526-267	Sequence 267, App	592	17.2	1.6	25	74	US-60-353-987-39831	Sequence 39831, A
520	17.2	1.6	47	32	US-09-853-526-328	Sequence 328, App	593	17.2	1.6	25	74	US-60-353-987-39832	Sequence 39832, A
521	17.2	1.6	47	34	US-09-901-484A-267	Sequence 267, App	594	17.2	1.6	25	74	US-60-353-987-106162	Sequence 106162,
522	17.2	1.6	47	34	US-09-901-484A-328	Sequence 328, App	595	17.2	1.6	25	74	US-60-353-987-225148	Sequence 225148,
523	17.2	1.6	47	47	US-60-082-614-1137	Sequence 1137, Ap	596	17.2	1.6	25	74	US-60-353-987-382435	Sequence 382435,
524	17.2	1.6	47	60	US-60-216-745-180	Sequence 180, App	597	17.2	1.6	25	74	US-60-353-987-557589	Sequence 557589,
525	17.2	1.6	47	60	US-60-216-745-394	Sequence 394, App	598	17.2	1.6	25	74	US-60-353-987-557590	Sequence 557590,
526	17.2	1.6	47	60	US-60-216-745-535	Sequence 535, App	599	17.2	1.6	25	74	US-60-353-987-580117	Sequence 580117,
527	17.2	1.6	47	60	US-60-216-745-4289	Sequence 4289, Ap	600	17.2	1.6	25	74	US-60-353-987-580118	Sequence 580118,
528	17.2	1.6	48	8	US-08-472-194-25	Sequence 25, Appl	601	17.2	1.6	25	74	US-60-353-987-618433	Sequence 618433,
529	17.2	1.6	48	16	US-09-262-142-25	Sequence 25, Appl	602	17.2	1.6	25	74	US-60-353-987-651376	Sequence 651376,
530	17.2	1.6	48	18	US-09-423-035A-25	Sequence 25, Appl	603	17.2	1.6	25	74	US-60-353-987-656043	Sequence 656043,
531	17.2	1.6	48	32	US-09-848-754A-8318	Sequence 8318, Ap	604	17.2	1.6	25	74	US-60-353-987-793737	Sequence 793737,
532	17.2	1.6	49	27	US-09-699-011A-318	Sequence 318, App	605	17.2	1.6	25	74	US-60-353-987-827279	Sequence 827279,
533	17.2	1.6	49	29	US-09-736-151-3	Sequence 3, Appl	606	17.2	1.6	25	74	US-60-353-987-849562	Sequence 849562,
534	17.2	1.6	49	64	US-60-253-457-20967	Sequence 20967, A	607	17.2	1.6	25	74	US-60-353-987-937926	Sequence 937926,
535	17.2	1.6	50	1	PCT-US01-47856-485	Sequence 485, App	608	17.2	1.6	25	74	US-60-353-987-982307	Sequence 982307,
536	17.2	1.6	50	1	PCT-US01-47856-758	Sequence 758, App	609	17.2	1.6	28	8	US-08-413-938-6	Sequence 6, Appl
537	17.2	1.6	50	1	PCT-US01-47856-782	Sequence 782, App	610	17.2	1.6	28	13	US-08-948-148-6	Sequence 6, Appl
538	17.2	1.6	50	1	PCT-US01-47856-2328	Sequence 2328, Ap	611	17.2	1.6	29	15	US-09-103-636-945	Sequence 946, App
539	17.2	1.6	50	1	PCT-US01-47856-5189	Sequence 5189, Ap	612	17.2	1.6	29	15	US-09-103-636-945	Sequence 946, App
540	17.2	1.6	50	1	PCT-US01-47856-5279	Sequence 5279, Ap	613	17.2	1.6	31	22	US-09-574-376B-963	Sequence 10, Appl
541	17.2	1.6	50	1	PCT-US01-47856-6276	Sequence 6276, Ap	614	17.2	1.6	33	16	US-09-244-438-10	Sequence 10, Appl
542	17.2	1.6	50	1	PCT-US01-47856-6511	Sequence 6511, Ap	615	17.2	1.6	36	16	US-09-274-553B-2426	Sequence 2426, Ap

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617	17	1.6	36	19	US-09-504-231A-2426	Sequence 2426, Ap	c 690	17	1.6	49	64	US-60-253-654-30990	Sequence 30990, A
618	17	1.6	36	23	US-09-611-931-2426	Sequence 2426, Ap	c 691	17	1.6	49	64	US-60-255-592-30990	Sequence 30990, A
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620	17	1.6	37	17	US-09-388-906A-24039	Sequence 24039, A	c 693	17	1.6	50	1	PCT-US01-47856-2039	Sequence 2039, Ap
621	17	1.6	37	17	US-09-392-706-52	Sequence 52, Appl	c 694	17	1.6	50	1	PCT-US01-47856-2967	Sequence 2967, Ap
622	17	1.6	38	17	US-09-371-772B-7302	Sequence 7302, Ap	c 695	17	1.6	50	1	PCT-US01-47856-3552	Sequence 3552, Ap
623	17	1.6	38	18	US-09-474-432B-1327	Sequence 1327, Ap	c 696	17	1.6	50	1	PCT-US01-47856-3684	Sequence 3684, Ap
624	17	1.6	38	18	US-09-476-387-1326	Sequence 1326, Ap	c 697	17	1.6	50	1	PCT-US01-47856-4302	Sequence 4302, Ap
625	17	1.6	38	22	US-09-572-021-2142	Sequence 2142, Ap	c 698	17	1.6	50	1	PCT-US01-47856-5023	Sequence 5023, Ap
626	17	1.6	38	28	US-09-708-690-9579	Sequence 9579, Ap	c 699	17	1.6	50	1	PCT-US01-47856-5184	Sequence 5184, Ap
627	17	1.6	38	31	US-09-825-805-1326	Sequence 1326, Ap	c 700	17	1.6	50	1	PCT-US01-47856-5279	Sequence 5279, Ap
628	17	1.6	38	32	US-09-848-754A-5875	Sequence 5875, Ap	c 701	17	1.6	50	1	PCT-US01-47856-5595	Sequence 5595, Ap
629	17	1.6	38	33	US-09-864-785-921	Sequence 821, App	c 702	17	1.6	50	1	PCT-US01-47856-5852	Sequence 5852, Ap
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632	17	1.6	38	34	US-09-927-046-3286	Sequence 3286, Ap	c 705	17	1.6	50	13	US-08-979-416-715	Sequence 715, App
633	17	1.6	39	11	US-08-761-729-5	Sequence 5, Appl	c 706	17	1.6	50	13	US-08-979-416-717	Sequence 717, App
634	17	1.6	39	37	US-10-005-956-1530	Sequence 1530, Ap	c 707	17	1.6	50	13	US-08-979-416-1553	Sequence 1553, Ap
635	17	1.6	42	3	US-07-937-539-3	Sequence 3, Appl	c 708	17	1.6	50	13	US-08-979-416-1555	Sequence 1555, Ap
636	17	1.6	42	17	US-09-310-298-466	Sequence 466, App	c 709	17	1.6	50	13	US-08-979-416-1559	Sequence 1559, Ap
637	17	1.6	42	17	US-09-310-298-4194	Sequence 4194, Ap	c 710	17	1.6	50	13	US-08-998-099-293	Sequence 293, App
638	17	1.6	42	17	US-09-310-298A-466	Sequence 466, App	c 711	17	1.6	50	13	US-08-998-099-301	Sequence 301, App
639	17	1.6	42	17	US-09-310-298A-4194	Sequence 4194, Ap	c 712	17	1.6	50	13	US-08-998-099-304	Sequence 304, App
640	17	1.6	43	17	US-09-302-240-37	Sequence 37, Appl	c 713	17	1.6	50	13	US-08-998-099-309	Sequence 309, App
641	17	1.6	43	17	US-09-310-298-4795	Sequence 4795, Ap	c 714	17	1.6	50	13	US-08-998-099-315	Sequence 315, App
642	17	1.6	43	17	US-09-310-298A-4795	Sequence 4795, Ap	c 715	17	1.6	50	14	US-09-025-635-13	Sequence 13, Appl
643	17	1.6	43	37	US-10-032-585-832	Sequence 832, App	c 716	17	1.6	50	16	US-09-274-553B-2919	Sequence 2919, Ap
644	17	1.6	43	37	US-10-032-585-1847	Sequence 1847, Ap	c 717	17	1.6	50	16	US-09-274-553B-2969	Sequence 2969, Ap
645	17	1.6	43	70	US-60-314-050-832	Sequence 832, App	c 718	17	1.6	50	16	US-09-274-553B-2973	Sequence 2973, Ap
646	17	1.6	44	3	US-07-630-900C-9	Sequence 9, Appl	c 719	17	1.6	50	16	US-09-274-553B-2975	Sequence 2975, Ap
647	17	1.6	44	6	US-08-297-631-7	Sequence 7, Appl	c 720	17	1.6	50	16	US-09-274-553B-3011	Sequence 3011, Ap
648	17	1.6	44	15	US-09-139-031A-7	Sequence 7, Appl	c 721	17	1.6	50	16	US-09-274-553B-3029	Sequence 3029, Ap
649	17	1.6	44	15	US-09-139-031C-7	Sequence 7, Appl	c 722	17	1.6	50	16	US-09-274-553B-3052	Sequence 3052, Ap
650	17	1.6	44	29	US-09-755-374A-27920	Sequence 27920, A	c 723	17	1.6	50	16	US-09-274-553B-3058	Sequence 3058, Ap
651	17	1.6	45	3	US-07-847-951A-99	Sequence 99, Appl	c 724	17	1.6	50	16	US-09-274-553B-3060	Sequence 3060, Ap
652	17	1.6	45	4	US-08-036-218-98	Sequence 98, Appl	c 725	17	1.6	50	16	US-09-274-553B-3071	Sequence 3071, Ap
653	17	1.6	45	7	US-08-358-627B-2	Sequence 2, Appl	c 726	17	1.6	50	16	US-09-274-553B-3074	Sequence 3074, Ap
654	17	1.6	45	7	US-08-358-627C-2	Sequence 2, Appl	c 727	17	1.6	50	16	US-09-274-553B-3094	Sequence 3094, Ap
655	17	1.6	45	8	US-08-358-627E-2	Sequence 2, Appl	c 728	17	1.6	50	16	US-09-274-553B-3102	Sequence 3102, Ap
656	17	1.6	45	8	US-08-465-712A-2	Sequence 2, Appl	c 729	17	1.6	50	16	US-09-274-553B-3106	Sequence 3106, Ap
657	17	1.6	45	8	US-08-465-712B-2	Sequence 2, Appl	c 730	17	1.6	50	16	US-09-274-553B-3122	Sequence 3122, Ap
658	17	1.6	45	8	US-08-465-712C-2	Sequence 2, Appl	c 731	17	1.6	50	16	US-09-274-553C-2943	Sequence 2943, Ap
659	17	1.6	45	17	US-09-349-925-2	Sequence 2, Appl	c 732	17	1.6	50	16	US-09-274-553C-2968	Sequence 2968, Ap
660	17	1.6	45	21	US-09-552-733-2	Sequence 2, Appl	c 733	17	1.6	50	16	US-09-274-553C-2973	Sequence 2973, Ap
661	17	1.6	45	71	US-60-324-185-13575	Sequence 13575, A	c 734	17	1.6	50	16	US-09-274-553C-2975	Sequence 2975, Ap
662	17	1.6	46	8	US-08-451-242A-2358	Sequence 2358, Ap	c 735	17	1.6	50	16	US-09-274-553C-3011	Sequence 3011, Ap
663	17	1.6	47	8	US-08-472-801-1015	Sequence 1015, Ap	c 736	17	1.6	50	16	US-09-274-553C-2940	Sequence 2940, Ap
664	17	1.6	47	10	US-08-668-235-1015	Sequence 1015, Ap	c 737	17	1.6	50	16	US-09-274-553C-2943	Sequence 2943, Ap
665	17	1.6	47	18	US-09-422-978-1824	Sequence 1824, Ap	c 738	17	1.6	50	16	US-09-274-553C-2968	Sequence 2968, Ap
666	17	1.6	47	18	US-09-422-978-1827	Sequence 1827, Ap	c 739	17	1.6	50	16	US-09-274-553C-2969	Sequence 2969, Ap
667	17	1.6	47	26	US-09-671-317-910	Sequence 910, App	c 740	17	1.6	50	16	US-09-274-553C-3052	Sequence 3052, Ap
668	17	1.6	47	26	US-09-671-317-910	Sequence 910, App	c 741	17	1.6	50	16	US-09-274-553C-3058	Sequence 3058, Ap
669	17	1.6	47	47	US-60-082-614-591	Sequence 591, App	c 742	17	1.6	50	16	US-09-274-553C-3060	Sequence 3060, Ap
670	17	1.6	47	47	US-60-082-614-1244	Sequence 1244, Ap	c 743	17	1.6	50	16	US-09-274-553C-3071	Sequence 3071, Ap
671	17	1.6	47	60	US-60-213-362-690	Sequence 690, App	c 744	17	1.6	50	16	US-09-274-553C-3074	Sequence 3074, Ap
672	17	1.6	47	60	US-60-216-745-279	Sequence 279, App	c 745	17	1.6	50	16	US-09-274-553C-3094	Sequence 3094, Ap
673	17	1.6	47	60	US-60-216-745-2441	Sequence 2441, Ap	c 746	17	1.6	50	16	US-09-274-553C-3102	Sequence 3102, Ap
674	17	1.6	47	60	US-60-216-745-3200	Sequence 3200, Ap	c 747	17	1.6	50	16	US-09-274-553C-3106	Sequence 3106, Ap
675	17	1.6	47	60	US-60-216-745-3357	Sequence 3357, Ap	c 748	17	1.6	50	16	US-09-274-553C-3122	Sequence 3122, Ap
676	17	1.6	47	60	US-60-216-745-4451	Sequence 4451, Ap	c 749	17	1.6	50	16	US-09-274-553C-3074	Sequence 3074, Ap
677	17	1.6	47	71	US-60-324-185-1732	Sequence 1732, Ap	c 750	17	1.6	50	16	US-09-274-553C-3094	Sequence 3094, Ap
678	17	1.6	48	17	US-09-310-298-1202	Sequence 1202, Ap	c 751	17	1.6	50	16	US-09-274-553C-3102	Sequence 3102, Ap
679	17	1.6	48	24	US-09-637-008-9929	Sequence 9929, Ap	c 752	17	1.6	50	16	US-09-274-553C-3106	Sequence 3106, Ap
680	17	1.6	48	71	US-60-324-185-25355	Sequence 25355, A	c 753	17	1.6	50	16	US-09-274-553C-3122	Sequence 3122, Ap
681	17	1.6	49	3	US-07-851-217-28	Sequence 28, Appl	c 754	17	1.6	50	18	US-09-401-063-1662	Sequence 1662, Ap
682	17	1.6	49	18	US-09-404-520-38604	Sequence 38604, A	c 755	17	1.6	50	18	US-09-401-063-1669	Sequence 1669, Ap
683	17	1.6	49	18	US-09-404-520-42288	Sequence 42288, A	c 756	17	1.6	50	18	US-09-401-063-1670	Sequence 1670, Ap
684	17	1.6	49	18	US-09-404-520-42877	Sequence 42877, A	c 757	17	1.6	50	18	US-09-401-063-1677	Sequence 1677, Ap
685	17	1.6	49	22	US-09-565-309A-37403	Sequence 37403, A	c 758	17	1.6	50	18	US-09-401-063-1682	Sequence 1682, Ap
686	17	1.6	49	27	US-09-699-011A-355	Sequence 355, App	c 759	17	1.6	50	18	US-09-401-063-1685	Sequence 1685, Ap
687	17	1.6	49	27	US-09-699-011A-466	Sequence 466, App	c 760	17	1.6	50	18	US-09-401-063-1693	Sequence 1693, Ap
688	17	1.6	49	64	US-60-253-456-27453	Sequence 27453, A	c 761	17	1.6	50	18	US-09-401-063-1698	Sequence 1698, Ap

; TITLE OF INVENTION: (Ptp-1b) Enzyme
; FILE REFERENCE: MBH00-836-A (237/194)
; CURRENT APPLICATION NUMBER: US/09/670,607
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 4262
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4175
; LENGTH: 50
; TYPE: RNA
; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid

US-09-670-607-4175

Query Match 2.0%; Score 21.8; DB 26; Length 50;

Best Local Similarity 49.0%; Pred. No. 1.1e+05;

Matches 24; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

QY 722 CAGCTGCAAGCTAGCTACTGAGCACATGTTGTTGGCAATGCTGGT 770

||||| ||||| | | ||||| :|: | :|:|:

Db 1 CAGCUGAAGCUGACACGAGAAACACACGUGUGUACAUUACCUUGU 49

RESULT 3

PCT-US97-09289-13

; Sequence 13, Application PC/TUS9709289

; GENERAL INFORMATION:

; APPLICANT: The Regents of the University of California

; TITLE OF INVENTION: TRANSGENIC ANIMALS EXPRESSING

; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson

; STREET: 2200 Sand Hill Road, Suite 100

; CITY: Menlo Park

; STATE: California

; COUNTRY: USA

; ZIP: 94025

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: ASCII

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US97/09289

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Bozicevic, Karl

; REGISTRATION NUMBER: 28,807

; REFERENCE/DOCKET NUMBER: 06510/045W01

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 322-5070

; TELEFAX: (415) 854-0875

; INFORMATION FOR SEQ ID NO: 13:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 42 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

PCT-US97-09289-13

Query Match

Best Local Similarity 2.0%; Score 21.2; DB 1; Length 42;

Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 540 CCCATCTGCTCTTGACCGCATTTGAGCTGAGGCCAACATCAAT 581

||||| ||||| | | ||||| ||||| |

Db 1 CCCTCCAGGCTTTGGCCGCTTCTTGCAGAGGCCTACATCAGT 42

RESULT 4

Query Match

Best Local Similarity 1.9%; Score 20.8; DB 29; Length 50;

Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

US-09-669-516B-13
; Sequence 13, Application US/09669516B
; GENERAL INFORMATION:
; APPLICANT: Prusiner, Stanley B.
; APPLICANT: Telling, Glenn C.
; APPLICANT: Cohen, Fred E.
; APPLICANT: Scott, Michael R.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCT ENCODING EPITOPE
; TITLE OF INVENTION: TAGGED PrP PROTEIN
; FILE REFERENCE: 06510045CON
; CURRENT APPLICATION NUMBER: US/09/669,516B
; CURRENT FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: 09/031,168
; PRIOR FILING DATE: 1998-02-26
; PRIOR APPLICATION NUMBER: 08/660,626
; PRIOR FILING DATE: 1996-06-06
; PRIOR APPLICATION NUMBER: 08/521,992
; PRIOR FILING DATE: 1995-08-31
; PRIOR APPLICATION NUMBER: 08/509,261
; PRIOR FILING DATE: 1995-07-31
; PRIOR APPLICATION NUMBER: 08/242,188
; PRIOR FILING DATE: 1994-05-13
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 42
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthesized oligonucleotide

US-09-669-516B-13

Query Match 2.0%; Score 21.2; DB 26; Length 42;

Best Local Similarity 69.0%; Pred. No. 1.5e+05;

Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 540 CCCATCTGCTCTTGACCGCATTTGAGCTGAGGCCAACATCAAT 581

||||| ||||| | | ||||| ||||| |

Db 1 CCCTCCAGGCTTTGGCCGCTTCTTGCAGAGGCCTACATCAGT 42

RESULT 5

US-09-755-374A-13826/c

; Sequence 13826, Application US/09755374A

; GENERAL INFORMATION:

; APPLICANT: Leach, Martin

; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and M

; FILE REFERENCE: 15966-611

; CURRENT APPLICATION NUMBER: US/09/755,374A

; CURRENT FILING DATE: 2001-01-08

; PRIOR APPLICATION NUMBER: 60/174962

; PRIOR FILING DATE: 2000-01-07

; NUMBER OF SEQ ID NOS: 28742

; SEQ ID NO 13826

; LENGTH: 50

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (26)...(0)

; OTHER INFORMATION: 2 of 2 allelic variants (13825 is other entry)

; NAME/KEY: misc_feature

; LOCATION: (25)...(26)

; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26

; NAME/KEY: misc_feature

; LOCATION: (0)...(0)

; OTHER INFORMATION: Accession number c943273197

US-09-755-374A-13826

Query Match

Best Local Similarity 1.9%; Score 20.8; DB 29; Length 50;

Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 253 GGAGCCCTGGCCCTCTTGCTAGCAAGGA 284
||||| ||||| ||||| ||||| ||||| |||||

Db 43 GGAGCCCTGGCCCGCTGCTAGCCATGGA 12

RESULT 6
US-09-755-374A-17664
; Sequence 17664, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 17664
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (17663 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg44925339
US-09-755-374A-17664

Query Match 1.9%; Score 20.4; DB 29; Length 50;
Best Local Similarity 65.2%; Pred. No. 2.9e+05;
Matches 30; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 593 TCTTCCTCAATGGACGTGATCAACAGCTCTATGCAATGGTCCT 638
||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 5 TCTTACCTGTAATAGCTCACTCCCTAGTTCCTTTCATTCGTCCT 50

RESULT 7
US-60-082-614-1242/c
; Sequence 1242, Application US/60082614
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Chumakov, Ilya
; APPLICANT: Blumenfeld, Marta
; TITLE OF INVENTION: Biallelic markers for use in constructing a
; NUMBER OF SEQUENCES: 2730
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 501 West Broadway
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92101-3505
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Win95
; SOFTWARE: Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/082,614
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:

; NAME: Israelsen, Ned A.
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: GENSET.020PR
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 1242:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: polymorphic fragment 99-6675
; LOCATION: 1..47
; OTHER INFORMATION: variant version of SEQ ID589
; FEATURE:
; NAME/KEY: polymorphic base
; LOCATION: 24
; OTHER INFORMATION: base g; a in SEQ ID589
; FEATURE:
; NAME/KEY: Potential microsequencing oligo 99-6675-mis1
; LOCATION: 1..23
; FEATURE:
; NAME/KEY: Potential microsequencing oligo 99-6675-mis2
; LOCATION: complement 25..47
US-60-082-614-1242

Query Match 1.9%; Score 20.2; DB 47; Length 47;
Best Local Similarity 75.8%; Pred. No. 3.2e+05;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 712 AGGAAGAAATCAGCTGCCAAGCTAGCTACTGGA 744
|| ||||| || ||||| || ||||| |||||

Db 41 AGTAAGAAATACATCTGACGAATAGCTACTGGA 9

RESULT 8
PCT-US01-47856-5838/c
; Sequence 5838, Application PC/TUS0147856
; GENERAL INFORMATION:
; APPLICANT: BIOCARDIA, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Quertermous, Thomas
; APPLICANT: Johnson, Frances
; APPLICANT: Fry, Kirk
; APPLICANT: Matcuk, George
; APPLICANT: Prentice, James
; APPLICANT: Phillips, Julie
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Altman, Peter
; TITLE OF INVENTION: LEUKOCYTE EXPRESSION PROFILING
; FILE REFERENCE: 506612000140
; CURRENT APPLICATION NUMBER: PCT/US01/47856
; CURRENT FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241,994
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 8832
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 5838
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-47856-5838

Query Match 1.9%; Score 20.2; DB 1; Length 50;
Best Local Similarity 68.3%; Pred. No. 3.3e+05;

Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 1028 TTGTTCTCCACATAAAGAGATCAAGTCAAGCATTCCTGAAG 1068
||||| + ||||| + ||||| + ||||| + ||||| + ||||| + ||||| + |||||
Db 47 TTGTGCGTCCACACAAGAACAACCTAGGAGAGGATCCAGAAG 7

RESULT 9

US-09-401-063-1708
; Sequence 1708, Application US/09401063

```

: APPLICANT: Akhtar, Saghir
: APPLICANT: Fell, Patricia
: APPLICANT: McSwiggen, James
: TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
: TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
: TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
: TITLE OF INVENTION: FACTOR RECEPTORS
: NUMBER OF SEQUENCES: 1877
: CORRESPONDENCE ADDRESS:

```

CARRIER ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 STREET: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066

```

?
? COMPUTER READABLE FORM:
? MEDIUM TYPE: 3.5" Diskette, 1.44 MB
? MEDIUM TYPE: storage
? COMPUTER: IBM Compatible
? OPERATING SYSTEM: IBM P.C. DOS 5.0
? SOFTWARE: FASTSEQ for Windows 2.0
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/401,063
? FILING DATE:
?

```

```

: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/985,162
: FILING DATE: 04 December 1997
: APPLICATION NUMBER: 60/036,476
: FILING DATE: 31 January 1997
: ATTORNEY/AGENT INFORMATION:
: NAME: Warburg, Richard J.
: REGISTRATION NUMBER: 32,327
: REFERENCE/DOCKET NUMBER: 230/107
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (213) 489-1600
: TELEFAX: (213) 955-0440
: TELEX: 67-3510

```

```

; INDEX: 07-3510 1708:
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-1708

```

Query Match 1.9%; Score 20.2; DB 18; Length 50;
Best Local Similarity 46.9%; Pred. No. 3.3e+05;
Matches 23; Conservative 8; Mismatches 18; Indels

QY	722	CAGCTGCCAAGCTAGCTACTGGAGCACATGTTGTCGCAATGTCGTGGT	770
		: :	
Db	1	CAGUUGAGAGGUAACCGAGAGAAACACACCGUUGUGGUACAUUACCUUGU	49

RESULT 10

US-09-843-620-1016/c
; Sequence 1016, Application US/09843620
; GENERAL INFORMATION:
; APPLICANT: Gearing, David P.
; APPLICANT: Holtzman, Douglas A.

```

; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
;
; TITLE OF INVENTION: THEREFOR
;
; FILE REFERENCE: 1600.2098-001
;
; CURRENT APPLICATION NUMBER: US/09/843,620
;
; CURRENT FILING DATE: 2001-04-26
;
; PRIOR APPLICATION NUMBER: US 60/200,099
;
; PRIOR FILING DATE: 2000-04-27
;
; NUMBER OF SEQ ID NOS: 1135
;
; SOFTWARE: FastSeq for Windows version 4.0
;
; SEQ ID NO 1016
;
; LENGTH: 46
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; FEATURE:
;
; NAME/KEY: misc_feature
;
; LOCATION: (1)...(46)
;
; OTHER INFORMATION: n = A,T,C or G
;
; US-09-843-620-1016

```

Query Match 1.8%; Score 20; DB 32; Length 46;
Best Local Similarity 63.0%; Pred. No. 3.7e+05;
Matches 29; Conservative 0; Mismatches 17; Indels

QY 839 TTGTGGAGGACGGCGGTGAGGCTTTCCCGCTGCACTGTTCATGCGCGG 884
- - - - -
Db 46 TAGGGGGANGAGGGCGTGNGCCCGCCACCTGCCCTTGCGGACGCGG 1

RESULT 11

US-09-755-374A-11828
; Sequence 11828, Application US/09755374A

GENERAL INFORMATION:
 APPLICANT: Leach, Martin
 APPLICANT: Shimkete, Richard A.
 TITLE OF INVENTION: Nucleic Acids
 TITLE OF INVENTION: Use Thereof
 FILE REFERENCE: 15966-611
 CURRENT APPLICATION NUMBER: US/07/081-081
 CURRENT FILING DATE: 2001-01-08
 PRIOR APPLICATION NUMBER: 60/174
 PRIOR FILING DATE: 2000-01-07
 NUMBER OF SEQ IDS: 28742

```

; SEQ ID NO 11828
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (11827 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg43917538
; US-09-755-374A-11828

```

Query Match 1.8%; Score 20; DB 29; Length 50;
Best Local Similarity 65.9%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 231 CTCCACGAGACTGAGCCCTTAGGAACCGCTGGCCCTCTTGCTC 274
||| | ||| | | ||| | ||| | ||| | ||| | |||
Dd 2 CTCAGAGCAGAGTGTGGCCCTAGGCACGGCTGCCCTGTAGCTC 45

RESULT 12

US-09-755-374A-11830
; Sequence 11830, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; APPLICANT: Shimkets, Richard A.

```
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
; FILE OF INVENTION: Use thereof
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 11830
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (25)..(0)
; OTHER INFORMATION: 2 of 2 allelic variants (11829 is other entry)
; NAME/KEY: misc feature
; LOCATION: (25)..(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: Accession number cg43917538
; US-09-755-374A-11830

Query Match 1.8%; Score 20; DB 29; Length 50;
Best Local Similarity 65.9%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 231 CTCCTAAGAGACTGAGCCCTTAGAAGCCGTGGCCCTCTTGGCTC 274
||| | ||| | | ||| | ||| | ||| | ||| | |||
Db 1 CTCAGACAGAGTTGGCCCTAGGACGGCTGCCCTGTAGCTC 44

RESULT 13
US-60-087-422-57/c
; Sequence 57, Application US/60087422
; GENERAL INFORMATION:
; APPLICANT: Nordine Cheikh
; APPLICANT: Jonathan M. Shaver
; APPLICANT: Jingdong Liu
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lawrence M. Lavin, Jr.
; STREET: BB4F
; STREET: Monsanto Company
; STREET: 700 Chesterfield Parkway North
; CITY: St. Louis
; STATE: MO
; COUNTRY: United States
; ZIP: 63198
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette (3.5in, 1.44 Mb)
; COMPUTER: IBM PC/XT/AT, IBM PS/2 or compatibles
; OPERATING SYSTEM: Windows 95/NT
; SOFTWARE:
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/087,422
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavin Jr., Lawrence M.
; REGISTRATION NUMBER: 30,768
; REFERENCE/DOCKET NUMBER: 04983.0029/38-21(15364)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 737-6670
; TELEFAX: (314) 737-6047
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
```

```
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; DEVELOPMENTAL STAGE: endosperm, 22 DAP
; TISSUE TYPE: seed
; IMMEDIATE SOURCE:
; LIBRARY: SATMON036
; CLONE: 700799976
; US-60-087-422-57

Query Match 1.8%; Score 20; DB 47; Length 50;
Best Local Similarity 64.4%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 710 TTAGGAAGAAATCAGCTGCCAAGCTAGCTACTGGAGCAGCATGTTG 754
||| | ||| | ||| | ||| | ||| | ||| | |||
Db 47 TTGGGAGGATNTCAGATCCCAAGTCATGTAATTGAGTATTATTTTG 3

RESULT 14
US-60-090-170-1486/c
; Sequence 1486, Application US/60090170
; GENERAL INFORMATION:
; APPLICANT: Devlina Lahiri
; APPLICANT: Chen Mu-Forster
; APPLICANT: Jingdong Liu
; TITLE OF INVENTION: Nucleic acid molecules and other molecules
; TITLE OF INVENTION: associated with the Complex Carbohydrate synthesis and
; NUMBER OF SEQUENCES: 1555
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lawrence M. Lavin, Jr.
; STREET: BB4F
; STREET: Monsanto Company
; STREET: 700 Chesterfield Parkway North
; CITY: St. Louis
; STATE: MO
; COUNTRY: United States
; ZIP: 63198
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette (3.5in, 1.44 Mb)
; COMPUTER: IBM PC/XT/AT, IBM PS/2 or compatibles
; OPERATING SYSTEM: Windows 95/NT
; SOFTWARE: Winzip 6.3
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/090,170
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavin Jr., Lawrence M.
; REGISTRATION NUMBER: 30,768
; REFERENCE/DOCKET NUMBER: 04983.0021/38-21(15425)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 737-6670
; TELEFAX: (314) 737-6047
; INFORMATION FOR SEQ ID NO: 1486:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; HYPOTHETICAL: NO
; MOLECULE TYPE: CDNA
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; DEVELOPMENTAL STAGE: endosperm, 22 DAP
; TISSUE TYPE: seed
; IMMEDIATE SOURCE:
; LIBRARY: SATMON036
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OM nucleic - nucleic search, using sw model

Run on: October 22, 2002, 15:48:31 ; Search time 342 Seconds

(without alignments)

11049.081 Million cell updates/sec

Title: US-09-374-967-1

Perfect score: 1086

Sequence: 1 atgaagccctcattctgtg.....agctgagatcgatgtga 1086

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2682990 seqs, 1739772391 residues

Total number of hits satisfying chosen parameters: 1355638

Minimum DB seq length: 20

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Pending_Patents_NA_New:*

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2: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*

3: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*

4: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*

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8: /cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	21.8	2.0	50	6	US-10-131-831-2668
2	21.8	2.0	50	6	US-10-131-827-2668
3	20.2	1.9	50	6	US-10-131-831-5838
4	20.2	1.9	50	6	US-10-131-827-5838
5	19.8	1.8	50	6	US-10-131-831-4009
6	19.8	1.8	50	6	US-10-131-831-4982
7	19.8	1.8	50	6	US-10-131-827-4009
8	19.8	1.8	50	6	US-10-131-827-4982
9	19.4	1.8	41	6	US-10-053-853A-1822
10	19.4	1.8	50	6	US-10-131-831-5239
11	19.4	1.8	50	6	US-10-131-827-5239
12	19.2	1.8	50	5	US-09-504-231B-3044
13	19.2	1.8	50	5	US-09-274-553D-3044
14	19.2	1.8	50	5	US-09-611-931A-3044
15	19.2	1.8	50	6	US-10-131-831-860
16	19.2	1.8	50	6	US-10-131-831-1222
17	19.2	1.8	50	6	US-10-131-831-3438
18	19.2	1.8	50	6	US-10-131-831-4105
19	19.2	1.8	50	6	US-10-131-827-860
20	19.2	1.8	50	6	US-10-131-827-1222
21	19.2	1.8	50	6	US-10-131-827-3438
22	19.2	1.8	50	6	US-10-131-827-4105
23	19	1.7	40	5	US-09-963-827B-86
24	19	1.7	50	6	US-10-131-831-3756
25	19	1.7	50	6	US-10-131-831-4621

19	1.7	50	6	US-10-131-827-3756	Sequence 3756, Ap
19	1.7	50	6	US-10-131-827-4621	Sequence 4621, Ap
18	1.7	50	5	US-09-964-201A-8	Sequence 8, Appli
29	18.8	50	6	US-10-131-831-574	Sequence 574, App
30	18.8	50	6	US-10-131-831-2523	Sequence 2523, Ap
31	18.8	50	6	US-10-131-831-6107	Sequence 6107, Ap
32	18.8	50	6	US-10-131-827-574	Sequence 574, App
33	18.8	50	6	US-10-131-827-2523	Sequence 2523, Ap
34	18.8	50	6	US-10-131-827-6107	Sequence 6107, Ap
35	18.6	31	1	PCT-US02-25943-30495	Sequence 30495, A
36	18.6	31	6	US-10-227-565-30495	Sequence 30495, A
37	18.6	45	6	US-10-238-129-14	Sequence 14, Appl
38	18.6	45	6	US-10-238-667-14	Sequence 14, Appl
39	18.6	47	7	US-10-170-097-1169	Sequence 1169, Ap
40	18.6	47	7	US-10-170-097-1236	Sequence 1236, Ap
41	18.6	50	6	US-10-131-831-2977	Sequence 2977, Ap
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43	18.6	50	6	US-10-131-831-7126	Sequence 7126, Ap
44	18.6	50	6	US-10-131-831-7420	Sequence 7420, Ap
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46	18.6	50	6	US-10-131-827-2977	Sequence 2977, Ap
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49	18.6	50	6	US-10-131-827-7420	Sequence 7420, Ap
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52	18.4	50	1	PCT-US02-25940-11472	Sequence 11472, A
53	18.4	50	6	US-10-131-831-461	Sequence 461, App
54	18.4	50	6	US-10-131-831-3574	Sequence 3574, Ap
55	18.4	50	6	US-10-131-831-5923	Sequence 5923, Ap
56	18.4	50	6	US-10-131-831-8002	Sequence 8002, Ap
57	18.4	50	6	US-10-131-827-461	Sequence 461, App
58	18.4	50	6	US-10-131-827-3574	Sequence 3574, Ap
59	18.4	50	6	US-10-131-827-5923	Sequence 5923, Ap
60	18.4	50	6	US-10-131-827-8002	Sequence 8002, Ap
61	18.4	50	6	US-10-227-563-11472	Sequence 11472, A
62	18.2	47	5	US-09-638-202-29	Sequence 29, Appl
63	18.2	47	5	US-09-638-202A-29	Sequence 29, Appl
64	18.2	47	6	US-10-190-162-29	Sequence 29, Appl
65	18.2	47	6	US-10-165-155-29	Sequence 29, Appl
66	18.2	50	5	US-09-504-231B-3091	Sequence 3091, Ap
67	18.2	50	5	US-09-274-553D-3091	Sequence 3091, Ap
68	18.2	50	5	US-09-718-321A-113	Sequence 113, App
69	18.2	50	5	US-09-611-931A-3091	Sequence 3091, Ap
70	18.2	50	6	US-10-131-831-667	Sequence 667, App
71	18.2	50	6	US-10-131-827-667	Sequence 667, App
72	18	34	7	US-10-164-204-4	Sequence 4, Appli
73	18	42	6	US-10-223-978-27	Sequence 27, Appl
74	18	48	5	US-09-871-225A-22	Sequence 22, Appl
75	18	50	5	US-09-863-733A-5	Sequence 5, Appli
76	18	50	5	US-09-863-733A-7	Sequence 7, Appli
77	18	50	5	US-09-863-733A-26	Sequence 26, Appl
78	18	50	5	US-09-863-733A-27	Sequence 27, Appl
79	18	50	5	US-09-863-733A-31	Sequence 31, Appl
80	18	50	5	US-09-863-733A-32	Sequence 32, Appl
81	18	50	6	US-10-116-420-5	Sequence 5, Appli
82	18	50	6	US-10-116-420-7	Sequence 7, Appli
83	18	50	6	US-10-116-420-26	Sequence 26, Appl
84	18	50	6	US-10-116-420-27	Sequence 27, Appl
85	18	50	6	US-10-116-420-31	Sequence 31, Appl
86	18	50	6	US-10-116-420-32	Sequence 32, Appl
87	18	50	6	US-10-131-831-896	Sequence 896, App
88	18	50	6	US-10-131-831-1774	Sequence 1774, Ap
89	18	50	6	US-10-131-831-7271	Sequence 7271, Ap
90	18	50	6	US-10-131-827-896	Sequence 896, App
91	18	50	6	US-10-131-827-1774	Sequence 1774, Ap
92	18	50	6	US-10-131-827-7271	Sequence 7271, Ap
93	17.8	31	7	US-10-156-306-3301	Sequence 3301, Ap
94	17.8	37	1	PCT-US02-25941-2243	Sequence 2243, Ap
95	17.8	39	1	PCT-US02-25941-2244	Sequence 2244, Ap
96	17.8	50	5	US-09-504-231B-3028	Sequence 3028, Ap
97	17.8	50	5	US-09-504-231B-3035	Sequence 3035, Ap
98	17.8	50	5	US-09-274-553D-3028	Sequence 3028, Ap

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100	17.8	1.6	50	5	US-09-611-931A-3028	Sequence 3028, Ap	173	17.2	1.6	50	5	US-09-504-231B-3031	Sequence 3031, Ap
101	17.8	1.6	50	5	US-09-611-931A-3035	Sequence 3035, Ap	174	17.2	1.6	50	5	US-09-274-553D-2316	Sequence 2316, Ap
c 102	17.8	1.6	50	6	US-10-131-831-771	Sequence 771, App	175	17.2	1.6	50	5	US-09-274-553D-2366	Sequence 2366, Ap
c 103	17.8	1.6	50	6	US-10-131-831-4651	Sequence 4651, Ap	176	17.2	1.6	50	5	US-09-274-553D-3003	Sequence 3003, Ap
c 104	17.8	1.6	50	6	US-10-131-831-4725	Sequence 4725, Ap	177	17.2	1.6	50	5	US-09-274-553D-3031	Sequence 3031, Ap
c 105	17.8	1.6	50	6	US-10-131-831-7390	Sequence 7390, Ap	178	17.2	1.6	50	5	US-09-611-931A-2916	Sequence 2916, Ap
c 106	17.8	1.6	50	6	US-10-131-831-8016	Sequence 8016, Ap	179	17.2	1.6	50	5	US-09-611-931A-2966	Sequence 2966, Ap
c 107	17.8	1.6	50	6	US-10-131-827-771	Sequence 771, App	180	17.2	1.6	50	5	US-09-611-931A-3003	Sequence 3003, Ap
c 108	17.8	1.6	50	6	US-10-131-827-4651	Sequence 4651, Ap	181	17.2	1.6	50	5	US-09-611-931A-3031	Sequence 3031, Ap
c 109	17.8	1.6	50	6	US-10-131-827-4725	Sequence 4725, Ap	182	17.2	1.6	50	6	US-10-131-831-485	Sequence 485, App
c 110	17.8	1.6	50	6	US-10-131-827-7390	Sequence 7390, Ap	c 183	17.2	1.6	50	6	US-10-131-831-758	Sequence 758, App
c 111	17.8	1.6	50	6	US-10-131-827-8016	Sequence 8016, Ap	c 184	17.2	1.6	50	6	US-10-131-831-782	Sequence 782, App
c 112	17.6	1.6	25	5	US-09-396-196G-44038	Sequence 44038, A	c 185	17.2	1.6	50	6	US-10-131-831-2328	Sequence 2328, Ap
c 113	17.6	1.6	25	5	US-09-396-196G-49441	Sequence 49441, A	c 186	17.2	1.6	50	6	US-10-131-831-5189	Sequence 5189, Ap
c 114	17.6	1.6	25	5	US-09-396-196G-49442	Sequence 49442, A	c 187	17.2	1.6	50	6	US-10-131-831-5279	Sequence 5279, Ap
c 115	17.6	1.6	30	6	US-10-085-906-17	Sequence 17, Appl	c 188	17.2	1.6	50	6	US-10-131-831-6276	Sequence 6276, Ap
c 116	17.6	1.6	44	1	PCT-US02-25942-5207	Sequence 5207, Ap	c 189	17.2	1.6	50	6	US-10-131-831-6511	Sequence 6511, Ap
c 117	17.6	1.6	44	6	US-10-227-567-5207	Sequence 5207, Ap	c 190	17.2	1.6	50	6	US-10-131-831-6901	Sequence 6901, Ap
c 118	17.6	1.6	47	1	PCT-US02-25943-17805	Sequence 17805, A	c 191	17.2	1.6	50	6	US-10-131-831-7216	Sequence 7216, Ap
c 119	17.6	1.6	47	6	US-10-227-565-17805	Sequence 17805, A	c 192	17.2	1.6	50	6	US-10-131-831-7238	Sequence 7238, Ap
c 120	17.6	1.6	47	7	US-10-170-097-1010	Sequence 1010, Ap	c 193	17.2	1.6	50	6	US-10-131-827-485	Sequence 485, App
c 121	17.6	1.6	50	6	US-10-131-831-5276	Sequence 5276, Ap	c 194	17.2	1.6	50	6	US-10-131-827-782	Sequence 782, App
c 122	17.6	1.6	50	6	US-10-131-827-5276	Sequence 5276, Ap	c 195	17.2	1.6	50	6	US-10-131-827-782	Sequence 782, App
c 123	17.4	1.6	38	5	US-09-745-237A-1861	Sequence 1861, Ap	c 196	17.2	1.6	50	6	US-10-131-827-2328	Sequence 2328, Ap
c 124	17.4	1.6	38	7	US-10-138-674-13813	Sequence 13813, A	c 197	17.2	1.6	50	6	US-10-131-827-5189	Sequence 5189, Ap
c 125	17.4	1.6	38	7	US-10-138-674-14787	Sequence 14787, A	c 198	17.2	1.6	50	6	US-10-131-827-5279	Sequence 5279, Ap
c 126	17.4	1.6	38	7	US-10-138-674-15673	Sequence 15673, A	c 199	17.2	1.6	50	6	US-10-131-827-6276	Sequence 6276, Ap
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c 128	17.4	1.6	45	5	US-09-863-733A-15	Sequence 15, Appl	c 201	17.2	1.6	50	6	US-10-131-827-6901	Sequence 6901, Ap
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c 130	17.4	1.6	45	6	US-10-131-831-2675	Sequence 2675, Ap	c 203	17.2	1.6	50	6	US-10-131-827-7238	Sequence 7238, Ap
c 131	17.4	1.6	50	6	US-10-131-831-2868	Sequence 2868, Ap	c 204	17	1.6	25	5	US-09-956-604-48761	Sequence 48761, A
c 132	17.4	1.6	50	6	US-10-131-831-5146	Sequence 5146, Ap	c 205	17	1.6	25	5	US-09-956-604-112993	Sequence 112993, A
c 133	17.4	1.6	50	6	US-10-131-831-5471	Sequence 5471, Ap	c 206	17	1.6	25	5	US-09-396-196G-2895	Sequence 2895, Ap
c 134	17.4	1.6	50	6	US-10-131-831-6541	Sequence 6541, Ap	c 207	17	1.6	25	5	US-09-396-196G-53686	Sequence 53686, A
c 135	17.4	1.6	50	6	US-10-131-831-6931	Sequence 6931, Ap	c 208	17	1.6	25	5	US-09-396-196G-59982	Sequence 59982, A
c 136	17.4	1.6	50	6	US-10-131-827-6931	Sequence 6931, Ap	c 209	17	1.6	25	5	US-09-396-196G-90399	Sequence 90399, A
c 137	17.4	1.6	50	6	US-10-131-827-7675	Sequence 7675, Ap	c 210	17	1.6	25	5	US-09-956-604A-48761	Sequence 48761, A
c 138	17.4	1.6	50	6	US-10-131-827-2868	Sequence 2868, Ap	c 211	17	1.6	25	5	US-09-956-604A-112993	Sequence 112993, A
c 139	17.4	1.6	50	6	US-10-131-827-5146	Sequence 5146, Ap	c 212	17	1.6	25	5	US-10-215-112-2811	Sequence 2811, Ap
c 140	17.4	1.6	50	6	US-10-131-827-5471	Sequence 5471, Ap	c 213	17	1.6	36	1	PCT-US02-25943-56092	Sequence 56092, A
c 141	17.4	1.6	50	6	US-10-131-827-6541	Sequence 6541, Ap	c 214	17	1.6	36	5	US-09-504-231B-2426	Sequence 2426, Ap
c 142	17.4	1.6	50	6	US-10-131-827-6931	Sequence 6931, Ap	c 215	17	1.6	36	5	US-09-274-553D-2426	Sequence 2426, Ap
c 143	17.4	1.6	50	6	US-10-131-827-7764	Sequence 7764, Ap	c 216	17	1.6	36	5	US-09-611-931A-2426	Sequence 2426, Ap
c 144	17.2	1.6	25	5	US-09-956-604-27610	Sequence 27610, A	c 217	17	1.6	36	6	US-10-227-565-56092	Sequence 56092, A
c 145	17.2	1.6	25	5	US-09-956-604-27613	Sequence 27613, A	c 218	17	1.6	38	7	US-10-138-674-9579	Sequence 9579, Ap
c 146	17.2	1.6	25	5	US-09-956-604-27618	Sequence 27618, A	c 219	17	1.6	38	8	US-60-384-980-493	Sequence 493, App
c 147	17.2	1.6	25	5	US-09-396-196G-46364	Sequence 46364, A	c 220	17	1.6	38	8	US-60-384-980-494	Sequence 494, App
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c 149	17.2	1.6	25	5	US-09-956-604A-27610	Sequence 27610, A	c 222	17	1.6	38	8	US-60-384-980-496	Sequence 496, App
c 150	17.2	1.6	25	5	US-09-956-604A-27613	Sequence 27613, A	c 223	17	1.6	41	1	PCT-US02-25941-1701	Sequence 1701, Ap
c 151	17.2	1.6	25	5	US-09-956-604A-27618	Sequence 27618, A	c 224	17	1.6	42	6	US-10-223-978-26	Sequence 26, Appl
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c 153	17.2	1.6	34	6	US-10-227-565-30496	Sequence 30496, A	c 226	17	1.6	44	5	US-09-504-231B-2919	Sequence 2919, Ap
c 154	17.2	1.6	34	5	US-09-503-138B-86	Sequence 86, Appl	c 227	17	1.6	50	5	US-09-504-231B-2922	Sequence 2922, Ap
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c 156	17.2	1.6	34	7	US-10-150-407-86	Sequence 86, Appl	c 229	17	1.6	50	5	US-09-504-231B-2943	Sequence 2943, Ap
c 157	17.2	1.6	34	7	US-10-150-407-89	Sequence 89, Appl	c 230	17	1.6	50	5	US-09-504-231B-2968	Sequence 2968, Ap
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c 159	17.2	1.6	37	5	US-09-780-164-1816	Sequence 1816, Ap	c 232	17	1.6	50	5	US-09-504-231B-2973	Sequence 2973, Ap
c 160	17.2	1.6	38	7	US-10-138-674-15973	Sequence 15973, A	c 233	17	1.6	50	5	US-09-504-231B-2975	Sequence 2975, Ap
c 161	17.2	1.6	40	7	US-10-135-965-6	Sequence 6, Appl1	c 234	17	1.6	50	5	US-09-504-231B-3011	Sequence 3011, Ap
c 162	17.2	1.6	40	7	US-10-135-965-39	Sequence 39, Appl	c 235	17	1.6	50	5	US-09-504-231B-3029	Sequence 3029, Ap
c 163	17.2	1.6	40	7	US-10-135-965-49	Sequence 49, Appl	c 236	17	1.6	50	5	US-09-504-231B-3052	Sequence 3052, Ap
c 164	17.2	1.6	41	7	US-10-043-573-61	Sequence 61, Appl	c 237	17	1.6	50	5	US-09-504-231B-3058	Sequence 3058, Ap
c 165	17.2	1.6	41	7	US-10-023-831A-36	Sequence 36, Appl	c 238	17	1.6	50	5	US-09-504-231B-3060	Sequence 3060, Ap
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c 168	17.2	1.6	47	5	US-09-727-739B-50	Sequence 50, Appl	c 241	17	1.6	50	5	US-09-504-231B-3094	Sequence 3094, Ap
c 169	17.2	1.6	47	7	US-10-170-097-1170	Sequence 1170, Ap	c 242	17	1.6	50	5	US-09-504-231B-3102	Sequence 3102, Ap
c 170	17.2	1.6	50	5	US-09-504-231B-2916	Sequence 2916, Ap	c 243	17	1.6	50	5	US-09-504-231B-3106	Sequence 3106, Ap
c 171	17.2	1.6	50	5	US-09-504-231B-2966	Sequence 2966, Ap	c 244	17	1.6	50	5	US-09-504-231B-3122	Sequence 3122, Ap

245	17	1.6	50	5	US-09-274-553D-2919	Sequence 2919, Ap	c 318	16.8	1.5	37	5	US-09-745-237A-2819	Sequence 2819, Ap
246	17	1.6	50	5	US-09-274-553D-2922	Sequence 2922, Ap	c 319	16.8	1.5	37	7	US-10-138-674-18614	Sequence 18614, A
247	17	1.6	50	5	US-09-274-553D-2940	Sequence 2940, Ap	c 320	16.8	1.5	38	7	US-10-138-674-15507	Sequence 15507, A
248	17	1.6	50	5	US-09-274-553D-2943	Sequence 2943, Ap	c 321	16.8	1.5	38	7	US-10-138-674-16258	Sequence 16258, A
249	17	1.6	50	5	US-09-274-553D-2968	Sequence 2968, Ap	c 322	16.8	1.5	38	7	US-10-156-306-1784	Sequence 1784, Ap
250	17	1.6	50	5	US-09-274-553D-2969	Sequence 2969, Ap	c 323	16.8	1.5	38	8	US-60-400-689-156	Sequence 156, App
251	17	1.6	50	5	US-09-274-553D-2973	Sequence 2973, Ap	c 324	16.8	1.5	40	1	PCT-US02-25943-27542	Sequence 27542, A
252	17	1.6	50	5	US-09-274-553D-2975	Sequence 2975, Ap	c 325	16.8	1.5	40	1	PCT-US02-25943-27543	Sequence 27543, A
253	17	1.6	50	5	US-09-274-553D-3029	Sequence 3029, Ap	c 326	16.8	1.5	40	6	US-10-227-565-27542	Sequence 27542, A
254	17	1.6	50	5	US-09-274-553D-3031	Sequence 3031, Ap	c 327	16.8	1.5	40	6	US-10-227-565-27543	Sequence 27543, A
255	17	1.6	50	5	US-09-274-553D-3052	Sequence 3052, Ap	c 328	16.8	1.5	42	5	US-09-843-217-31	Sequence 31, Appl
256	17	1.6	50	5	US-09-274-553D-3058	Sequence 3058, Ap	c 329	16.8	1.5	45	1	PCT-US02-25943-35096	Sequence 35096, A
257	17	1.6	50	5	US-09-274-553D-3060	Sequence 3060, Ap	c 330	16.8	1.5	45	6	US-10-227-565-35096	Sequence 35096, A
258	17	1.6	50	5	US-09-274-553D-3071	Sequence 3071, Ap	c 331	16.8	1.5	46	5	US-09-463-282D-9	Sequence 9, Appl
259	17	1.6	50	5	US-09-274-553D-3074	Sequence 3074, Ap	c 332	16.8	1.5	47	7	US-10-170-097-960	Sequence 960, App
260	17	1.6	50	5	US-09-274-553D-3094	Sequence 3094, Ap	c 333	16.8	1.5	47	7	US-10-170-097-1168	Sequence 1168, Ap
261	17	1.6	50	5	US-09-274-553D-3102	Sequence 3102, Ap	c 334	16.8	1.5	47	7	US-10-170-097-1197	Sequence 1197, Ap
262	17	1.6	50	5	US-09-274-553D-3106	Sequence 3106, Ap	c 335	16.8	1.5	50	5	US-09-904-920A-88	Sequence 88, Appl
263	17	1.6	50	5	US-09-274-553D-3122	Sequence 3122, Ap	c 336	16.8	1.5	50	5	US-09-902-572A-88	Sequence 88, Appl
264	17	1.6	50	5	US-09-611-931A-2919	Sequence 2919, Ap	c 337	16.8	1.5	50	5	US-09-906-815A-88	Sequence 88, Appl
265	17	1.6	50	5	US-09-611-931A-2922	Sequence 2922, Ap	c 338	16.8	1.5	50	5	US-09-906-760A-88	Sequence 88, Appl
266	17	1.6	50	5	US-09-611-931A-2940	Sequence 2940, Ap	c 339	16.8	1.5	50	5	US-09-902-692-88	Sequence 88, Appl
267	17	1.6	50	5	US-09-611-931A-2943	Sequence 2943, Ap	c 340	16.8	1.5	50	5	US-09-906-666A-88	Sequence 88, Appl
268	17	1.6	50	5	US-09-611-931A-2968	Sequence 2968, Ap	c 341	16.8	1.5	50	5	US-09-906-679A-88	Sequence 88, Appl
269	17	1.6	50	5	US-09-611-931A-2969	Sequence 2969, Ap	c 342	16.8	1.5	50	5	US-09-904-877A-88	Sequence 88, Appl
270	17	1.6	50	5	US-09-611-931A-3058	Sequence 3058, Ap	c 343	16.8	1.5	50	5	US-09-903-603A-88	Sequence 88, Appl
271	17	1.6	50	5	US-09-611-931A-3071	Sequence 3071, Ap	c 344	16.8	1.5	50	5	US-09-904-938A-88	Sequence 88, Appl
272	17	1.6	50	5	US-09-611-931A-3074	Sequence 3074, Ap	c 345	16.8	1.5	50	5	US-09-906-722A-88	Sequence 88, Appl
273	17	1.6	50	5	US-09-611-931A-3094	Sequence 3094, Ap	c 346	16.8	1.5	50	5	US-09-907-841-88	Sequence 88, Appl
274	17	1.6	50	5	US-09-611-931A-3052	Sequence 3052, Ap	c 347	16.8	1.5	50	6	US-10-131-831-631	Sequence 631, App
275	17	1.6	50	5	US-09-611-931A-3058	Sequence 3058, Ap	c 348	16.8	1.5	50	6	US-10-131-831-661	Sequence 661, App
276	17	1.6	50	5	US-09-611-931A-3060	Sequence 3060, Ap	c 349	16.8	1.5	50	6	US-10-131-831-2352	Sequence 2352, Ap
277	17	1.6	50	5	US-09-611-931A-3071	Sequence 3071, Ap	c 350	16.8	1.5	50	6	US-10-131-831-3397	Sequence 3397, Ap
278	17	1.6	50	5	US-09-611-931A-3074	Sequence 3074, Ap	c 351	16.8	1.5	50	6	US-10-131-831-3709	Sequence 3709, Ap
279	17	1.6	50	5	US-09-611-931A-3094	Sequence 3094, Ap	c 352	16.8	1.5	50	6	US-10-131-831-4542	Sequence 4542, Ap
280	17	1.6	50	5	US-09-611-931A-3102	Sequence 3102, Ap	c 353	16.8	1.5	50	6	US-10-131-831-5027	Sequence 5027, Ap
281	17	1.6	50	5	US-09-611-931A-3106	Sequence 3106, Ap	c 354	16.8	1.5	50	6	US-10-131-831-5710	Sequence 5710, Ap
282	17	1.6	50	5	US-09-611-931A-3122	Sequence 3122, Ap	c 355	16.8	1.5	50	6	US-10-131-831-5774	Sequence 5774, Ap
283	17	1.6	50	6	US-10-131-831-241	Sequence 241, App	c 356	16.8	1.5	50	6	US-10-131-831-5967	Sequence 5967, Ap
c 284	17	1.6	50	6	US-10-131-831-2039	Sequence 2039, Ap	c 357	16.8	1.5	50	6	US-10-131-831-5978	Sequence 5978, Ap
285	17	1.6	50	6	US-10-131-831-2967	Sequence 2967, Ap	c 358	16.8	1.5	50	6	US-10-131-831-6444	Sequence 6444, Ap
286	17	1.6	50	6	US-10-131-831-3552	Sequence 3552, Ap	c 359	16.8	1.5	50	6	US-10-131-831-6466	Sequence 6466, Ap
c 287	17	1.6	50	6	US-10-131-831-3684	Sequence 3684, Ap	c 360	16.8	1.5	50	6	US-10-131-831-6725	Sequence 6725, Ap
c 288	17	1.6	50	6	US-10-131-831-4302	Sequence 4302, Ap	c 361	16.8	1.5	50	6	US-10-131-831-6834	Sequence 6834, Ap
289	17	1.6	50	6	US-10-131-831-5023	Sequence 5023, Ap	c 362	16.8	1.5	50	6	US-10-131-831-6856	Sequence 6856, Ap
290	17	1.6	50	6	US-10-131-831-5184	Sequence 5184, Ap	c 363	16.8	1.5	50	6	US-10-131-831-7115	Sequence 7115, Ap
c 291	17	1.6	50	6	US-10-131-831-5279	Sequence 5279, Ap	c 364	16.8	1.5	50	6	US-10-131-831-7409	Sequence 7409, Ap
c 292	17	1.6	50	6	US-10-131-831-5595	Sequence 5595, Ap	c 365	16.8	1.5	50	6	US-10-131-831-7488	Sequence 7488, Ap
293	17	1.6	50	6	US-10-131-831-5852	Sequence 5852, Ap	c 366	16.8	1.5	50	6	US-10-131-831-7722	Sequence 7722, Ap
294	17	1.6	50	6	US-10-131-827-2039	Sequence 2039, Ap	c 367	16.8	1.5	50	6	US-10-215-371-88	Sequence 88, Appl
c 295	17	1.6	50	6	US-10-131-827-2039	Sequence 2039, Ap	c 368	16.8	1.5	50	6	US-10-131-827-631	Sequence 631, App
296	17	1.6	50	6	US-10-131-827-2967	Sequence 2967, Ap	c 369	16.8	1.5	50	6	US-10-131-827-661	Sequence 661, App
297	17	1.6	50	6	US-10-131-827-3552	Sequence 3552, Ap	c 370	16.8	1.5	50	6	US-10-131-827-2352	Sequence 2352, Ap
c 298	17	1.6	50	6	US-10-131-827-3684	Sequence 3684, Ap	c 371	16.8	1.5	50	6	US-10-131-827-3397	Sequence 3397, Ap
c 299	17	1.6	50	6	US-10-131-827-4302	Sequence 4302, Ap	c 372	16.8	1.5	50	6	US-10-131-827-3709	Sequence 3709, Ap
300	17	1.6	50	6	US-10-131-827-5023	Sequence 5023, Ap	c 373	16.8	1.5	50	6	US-10-131-827-4542	Sequence 4542, Ap
301	17	1.6	50	6	US-10-131-827-5184	Sequence 5184, Ap	c 374	16.8	1.5	50	6	US-10-131-827-5027	Sequence 5027, Ap
c 302	17	1.6	50	6	US-10-131-827-5279	Sequence 5279, Ap	c 375	16.8	1.5	50	6	US-10-131-827-5710	Sequence 5710, Ap
c 303	17	1.6	50	6	US-10-131-827-5595	Sequence 5595, Ap	c 376	16.8	1.5	50	6	US-10-131-827-5774	Sequence 5774, Ap
304	17	1.6	50	6	US-10-131-827-5852	Sequence 5852, Ap	c 377	16.8	1.5	50	6	US-10-131-827-5967	Sequence 5967, Ap
c 305	16.8	1.5	24	4	US-08-979-847B-94	Sequence 94, Appl	c 378	16.8	1.5	50	6	US-10-131-827-5978	Sequence 5978, Ap
c 306	16.8	1.5	24	7	US-10-114-104-94	Sequence 94, Appl	c 379	16.8	1.5	50	6	US-10-131-827-6444	Sequence 6444, Ap
307	16.8	1.5	25	5	US-09-956-604-99523	Sequence 99523, A	c 380	16.8	1.5	50	6	US-10-131-827-6466	Sequence 6466, Ap
c 308	16.8	1.5	25	5	US-09-956-604-99524	Sequence 99524, A	c 381	16.8	1.5	50	6	US-10-131-827-6725	Sequence 6725, Ap
c 309	16.8	1.5	25	5	US-09-956-604-99524	Sequence 99524, A	c 382	16.8	1.5	50	6	US-10-131-827-6834	Sequence 6834, Ap
310	16.8	1.5	25	5	US-09-956-604-99735	Sequence 99735, A	c 383	16.8	1.5	50	6	US-10-131-827-6856	Sequence 6856, Ap
c 311	16.8	1.5	25	5	US-09-396-1966-103061	Sequence 103061,	c 384	16.8	1.5	50	6	US-10-131-827-7115	Sequence 7115, Ap
312	16.8	1.5	25	5	US-09-396-1966-121980	Sequence 121980,	c 385	16.8	1.5	50	6	US-10-131-827-7409	Sequence 7409, Ap
313	16.8	1.5	25	5	US-09-956-604A-99523	Sequence 99523, A	c 386	16.8	1.5	50	6	US-10-131-827-7488	Sequence 7488, Ap
c 314	16.8	1.5	25	5	US-09-956-604A-99524	Sequence 99524, A	c 387	16.8	1.5	50	6	US-10-131-827-7722	Sequence 7722, Ap
c 315	16.8	1.5	25	5	US-09-956-604A-99735	Sequence 99735, A	c 388	16.6	1.5	23	5	US-09-594-945A-10	Sequence 10, Appl
c 316	16.8	1.5	34	5	US-09-643-217-30	Sequence 30, Appl	c 389	16.6	1.5	25	5	US-09-956-604-48042	Sequence 48042, A
c 317	16.8	1.5	36	5	US-09-964-201A-9	Sequence 9, Appl	c 390	16.6	1.5	25	5	US-09-956-604-48100	Sequence 48100, A

c 391	16.6	1.5	25	5	US-09-396-196G-10588	Sequence 10588, A	464	16.6	1.5	50	6	US-10-131-827-6900	Sequence 6900, Ap
392	16.6	1.5	25	5	US-09-396-196G-49458	Sequence 49458, A	465	16.6	1.5	50	6	US-10-131-827-6975	Sequence 6975, Ap
393	16.6	1.5	25	5	US-09-396-196G-59981	Sequence 59981, A	466	16.6	1.5	50	6	US-10-131-827-8091	Sequence 8091, Ap
394	16.6	1.5	25	5	US-09-396-196G-87498	Sequence 87498, A	467	16.4	1.5	25	5	US-09-956-604-10991	Sequence 10991, A
395	16.6	1.5	25	5	US-09-396-196G-124544	Sequence 124544, A	468	16.4	1.5	25	5	US-09-956-604A-10991	Sequence 10991, A
c 396	16.6	1.5	25	5	US-09-956-604A-48042	Sequence 48042, A	469	16.4	1.5	30	1	PCT-US02-25940-4667	Sequence 4667, Ap
397	16.6	1.5	25	5	US-09-956-604A-48100	Sequence 48100, A	c 470	16.4	1.5	30	6	US-10-166-225A-115	Sequence 115, App
398	16.6	1.5	30	1	PCT-US02-25943-2143	Sequence 2143, Ap	471	16.4	1.5	30	6	US-10-227-563-4667	Sequence 4667, Ap
399	16.6	1.5	30	6	US-10-227-565-2143	Sequence 2143, Ap	472	16.4	1.5	30	8	US-60-384-348-2	Sequence 2, Appl1
400	16.6	1.5	31	1	PCT-US02-25943-45093	Sequence 45093, A	c 473	16.4	1.5	31	1	PCT-US02-25940-4281	Sequence 4281, Ap
401	16.6	1.5	31	6	US-10-227-563-45093	Sequence 45093, A	474	16.4	1.5	31	6	US-10-227-786-4	Sequence 4, Appl1
c 402	16.6	1.5	36	1	PCT-US02-30759-5	Sequence 5, Appl1	c 475	16.4	1.5	31	6	US-10-227-563-4281	Sequence 4281, Ap
c 403	16.6	1.5	36	4	US-08-961-083-296	Sequence 296, App	476	16.4	1.5	31	7	US-10-156-306-6737	Sequence 6737, Ap
404	16.6	1.5	38	5	US-09-780-164-1466	Sequence 1466, Ap	477	16.4	1.5	32	1	PCT-US02-25940-19305	Sequence 19305, A
c 405	16.6	1.5	38	7	US-10-138-674-15897	Sequence 15897, A	c 478	16.4	1.5	32	1	PCT-US02-25940-19306	Sequence 19306, A
406	16.6	1.5	38	7	US-10-156-306-1995	Sequence 1995, Ap	479	16.4	1.5	32	6	US-10-227-563-19305	Sequence 19305, A
407	16.6	1.5	39	6	US-10-252-153-751	Sequence 751, App	c 480	16.4	1.5	32	6	US-10-227-563-19306	Sequence 19306, A
408	16.6	1.5	39	6	US-10-252-155-760	Sequence 760, App	481	16.4	1.5	32	6	US-10-241-872-22	Sequence 22, Appl1
c 409	16.6	1.5	39	8	US-60-405-896-7	Sequence 7, Appl1	482	16.4	1.5	36	5	US-09-504-231B-1987	Sequence 1987, Ap
c 410	16.6	1.5	40	1	PCT-US02-25941-2797	Sequence 2797, Ap	483	16.4	1.5	36	5	US-09-504-231B-1987	Sequence 2812, Ap
c 411	16.6	1.5	40	5	US-09-963-827B-97	Sequence 97, Appl	484	16.4	1.5	36	5	US-09-274-553D-1987	Sequence 1987, Ap
c 412	16.6	1.5	40	5	US-09-963-827B-98	Sequence 98, Appl	485	16.4	1.5	36	5	US-09-274-553D-1987	Sequence 2812, Ap
c 413	16.6	1.5	41	1	PCT-US02-25943-22466	Sequence 22466, A	486	16.4	1.5	36	5	US-09-498-824A-1493	Sequence 1493, Ap
c 414	16.6	1.5	41	6	US-10-252-155-323	Sequence 323, App	487	16.4	1.5	36	5	US-09-498-824A-1541	Sequence 1541, Ap
c 415	16.6	1.5	41	6	US-10-227-565-22466	Sequence 22466, A	488	16.4	1.5	36	5	US-09-498-824A-1927	Sequence 1927, Ap
c 416	16.6	1.5	42	1	PCT-US02-25941-2623	Sequence 2623, Ap	489	16.4	1.5	36	5	US-09-498-824A-2487	Sequence 2487, Ap
c 417	16.6	1.5	44	6	US-10-247-586-6	Sequence 6, Appl1	490	16.4	1.5	36	5	US-09-498-824A-2525	Sequence 2525, Ap
c 418	16.6	1.5	44	7	US-10-027-632-176447	Sequence 176447	491	16.4	1.5	36	5	US-09-611-931A-1987	Sequence 1987, Ap
419	16.6	1.5	46	5	US-09-007-288D-78	Sequence 78, Appl	492	16.4	1.5	36	5	US-09-611-931A-2812	Sequence 2812, Ap
420	16.6	1.5	46	5	US-09-007-288E-78	Sequence 78, Appl	493	16.4	1.5	37	5	US-09-504-231B-3185	Sequence 3185, Ap
421	16.6	1.5	46	5	US-09-442-489B-26	Sequence 26, Appl	494	16.4	1.5	37	5	US-09-611-931A-3185	Sequence 3185, Ap
422	16.6	1.5	46	6	US-10-232-544-78	Sequence 78, Appl	c 495	16.4	1.5	37	7	US-10-138-674-20406	Sequence 20406, A
423	16.6	1.5	48	7	US-10-146-835-35	Sequence 35, Appl	496	16.4	1.5	38	5	US-09-730-289B-2000	Sequence 2000, Ap
424	16.6	1.5	49	6	US-10-199-820-17	Sequence 17, Appl	497	16.4	1.5	38	5	US-09-780-164-1643	Sequence 1643, Ap
425	16.6	1.5	50	5	US-09-504-231B-2934	Sequence 2934, Ap	c 498	16.4	1.5	38	5	US-09-780-164-1658	Sequence 1658, Ap
426	16.6	1.5	50	5	US-09-504-231B-2979	Sequence 2979, Ap	c 499	16.4	1.5	38	7	US-10-027-632-5808	Sequence 5808, A
427	16.6	1.5	50	5	US-09-274-553D-2934	Sequence 2934, Ap	500	16.4	1.5	38	7	US-10-138-674-12479	Sequence 12479, A
428	16.6	1.5	50	5	US-09-274-553D-2979	Sequence 2979, Ap	501	16.4	1.5	38	7	US-10-138-674-13678	Sequence 13678, A
429	16.6	1.5	50	5	US-09-611-931A-2934	Sequence 2934, Ap	502	16.4	1.5	38	7	US-10-138-674-13893	Sequence 13893, A
430	16.6	1.5	50	5	US-09-611-931A-2979	Sequence 2979, Ap	503	16.4	1.5	38	7	US-10-138-674-14600	Sequence 14600, A
431	16.6	1.5	50	6	US-10-131-831-695	Sequence 695, App	504	16.4	1.5	38	7	US-10-138-674-15780	Sequence 15780, A
432	16.6	1.5	50	6	US-10-131-831-741	Sequence 741, App	c 505	16.4	1.5	38	7	US-10-156-306-2164	Sequence 2164, Ap
433	16.6	1.5	50	6	US-10-131-831-1392	Sequence 1392, Ap	506	16.4	1.5	38	7	US-10-156-306-5743	Sequence 5743, Ap
c 434	16.6	1.5	50	6	US-10-131-831-2091	Sequence 2091, Ap	c 507	16.4	1.5	40	7	US-10-109-349A-102	Sequence 102, App
435	16.6	1.5	50	6	US-10-131-831-3057	Sequence 3057, Ap	508	16.4	1.5	41	1	PCT-US02-12063-267	Sequence 267, App
c 436	16.6	1.5	50	6	US-10-131-831-3484	Sequence 3484, Ap	c 509	16.4	1.5	41	6	US-10-252-155-294	Sequence 294, App
c 437	16.6	1.5	50	6	US-10-131-831-4263	Sequence 4263, Ap	510	16.4	1.5	41	7	US-10-126-022-267	Sequence 267, App
c 438	16.6	1.5	50	6	US-10-131-831-4307	Sequence 4307, Ap	511	16.4	1.5	45	5	US-09-991-150-122	Sequence 122, App
c 439	16.6	1.5	50	6	US-10-131-831-4462	Sequence 4462, Ap	512	16.4	1.5	45	5	US-09-989-328-122	Sequence 122, App
c 440	16.6	1.5	50	6	US-10-131-831-4588	Sequence 4588, Ap	c 513	16.4	1.5	45	6	US-10-985-906-351	Sequence 351, App
441	16.6	1.5	50	6	US-10-131-831-4671	Sequence 4671, Ap	514	16.4	1.5	45	6	US-10-219-538-122	Sequence 122, App
c 442	16.6	1.5	50	6	US-10-131-831-5891	Sequence 5891, Ap	c 515	16.4	1.5	47	1	PCT-US02-25942-3431	Sequence 3431, Ap
c 443	16.6	1.5	50	6	US-10-131-831-6251	Sequence 6251, Ap	c 516	16.4	1.5	47	6	US-10-227-567-3431	Sequence 3431, Ap
c 444	16.6	1.5	50	6	US-10-131-831-6510	Sequence 6510, Ap	517	16.4	1.5	47	7	US-10-170-097-748	Sequence 748, App
c 445	16.6	1.5	50	6	US-10-131-831-6585	Sequence 6585, Ap	518	16.4	1.5	47	7	US-10-170-097-794	Sequence 794, App
446	16.6	1.5	50	6	US-10-131-831-6900	Sequence 6900, Ap	519	16.4	1.5	48	5	US-09-509-152C-990	Sequence 990, App
447	16.6	1.5	50	6	US-10-131-831-6975	Sequence 6975, Ap	c 520	16.4	1.5	48	7	US-10-156-306-7243	Sequence 7243, Ap
448	16.6	1.5	50	6	US-10-131-831-8091	Sequence 8091, Ap	c 521	16.4	1.5	50	6	US-10-131-831-210	Sequence 210, App
449	16.6	1.5	50	6	US-10-131-827-695	Sequence 695, App	522	16.4	1.5	50	6	US-10-131-831-239	Sequence 239, App
450	16.6	1.5	50	6	US-10-131-827-741	Sequence 741, App	523	16.4	1.5	50	6	US-10-131-831-787	Sequence 787, App
451	16.6	1.5	50	6	US-10-131-827-1392	Sequence 1392, Ap	c 524	16.4	1.5	50	6	US-10-131-831-801	Sequence 801, App
c 452	16.6	1.5	50	6	US-10-131-827-2091	Sequence 2091, Ap	525	16.4	1.5	50	6	US-10-131-831-1122	Sequence 1122, Ap
453	16.6	1.5	50	6	US-10-131-827-3057	Sequence 3057, Ap	526	16.4	1.5	50	6	US-10-131-831-1780	Sequence 1780, Ap
c 454	16.6	1.5	50	6	US-10-131-827-3484	Sequence 3484, Ap	527	16.4	1.5	50	6	US-10-131-831-1798	Sequence 1798, Ap
c 455	16.6	1.5	50	6	US-10-131-827-4263	Sequence 4263, Ap	c 528	16.4	1.5	50	6	US-10-131-831-2180	Sequence 2180, Ap
c 456	16.6	1.5	50	6	US-10-131-827-4307	Sequence 4307, Ap	529	16.4	1.5	50	6	US-10-131-831-2315	Sequence 2315, Ap
c 457	16.6	1.5	50	6	US-10-131-827-4462	Sequence 4462, Ap	530	16.4	1.5	50	6	US-10-131-831-2420	Sequence 2420, Ap
c 458	16.6	1.5	50	6	US-10-131-827-4588	Sequence 4588, Ap	531	16.4	1.5	50	6	US-10-131-831-2497	Sequence 2497, Ap
459	16.6	1.5	50	6	US-10-131-827-4671	Sequence 4671, Ap	532	16.4	1.5	50	6	US-10-131-831-2919	Sequence 2919, Ap
c 460	16.6	1.5	50	6	US-10-131-827-5891	Sequence 5891, Ap	533	16.4	1.5	50	6	US-10-131-831-3451	Sequence 3451, Ap
c 461	16.6	1.5	50	6	US-10-131-827-6251	Sequence 6251, Ap	c 534	16.4	1.5	50	6	US-10-131-831-3803	Sequence 3803, Ap
c 462	16.6	1.5	50	6	US-10-131-827-6510	Sequence 6510, Ap	535	16.4	1.5	50	6	US-10-131-831-4572	Sequence 4572, Ap
c 463	16.6	1.5	50	6	US-10-131-827-6585	Sequence 6585, Ap	536	16.4	1.5	50	6	US-10-131-831-5212	Sequence 5212, Ap

c 537	16.4	1.5	50	6	US-10-131-831-7683	Sequence 7683, Ap	610	16.2	1.5	45	6	US-10-227-567-10371	Sequence 10371, A
c 538	16.4	1.5	50	6	US-10-131-831-7919	Sequence 7919, Ap	c 611	16.2	1.5	47	1	PCT-US02-25942-6784	Sequence 6784, Ap
c 539	16.4	1.5	50	6	US-10-131-831-8004	Sequence 8004, Ap	612	16.2	1.5	47	1	US-09-967-386-4	Sequence 4, Appli
540	16.4	1.5	50	6	US-10-131-827-210	Sequence 210, App	613	16.2	1.5	47	6	US-10-199-820-213	Sequence 213, App
541	16.4	1.5	50	6	US-10-131-827-239	Sequence 239, App	c 614	16.2	1.5	47	6	US-10-227-567-6784	Sequence 6784, Ap
c 542	16.4	1.5	50	6	US-10-131-827-787	Sequence 787, App	615	16.2	1.5	47	7	US-10-001-052-7	Sequence 7, Appli
c 543	16.4	1.5	50	6	US-10-131-827-801	Sequence 801, App	616	16.2	1.5	47	7	US-10-170-097-1165	Sequence 1165, Ap
544	16.4	1.5	50	6	US-10-131-827-1122	Sequence 1122, Ap	617	16.2	1.5	48	1	PCT-US02-25942-10369	Sequence 10369, A
545	16.4	1.5	50	6	US-10-131-827-1780	Sequence 1780, Ap	618	16.2	1.5	48	1	PCT-US02-25945-1820	Sequence 1820, Ap
546	16.4	1.5	50	6	US-10-131-827-1798	Sequence 1798, Ap	619	16.2	1.5	48	1	PCT-US02-25939-1607	Sequence 1607, Ap
c 547	16.4	1.5	50	6	US-10-131-827-2180	Sequence 2180, Ap	620	16.2	1.5	48	5	US-09-758-282B-192	Sequence 192, App
548	16.4	1.5	50	6	US-10-131-827-2315	Sequence 2315, Ap	621	16.2	1.5	48	6	US-10-227-567-10369	Sequence 10369, A
549	16.4	1.5	50	6	US-10-131-827-2420	Sequence 2420, Ap	622	16.2	1.5	48	6	US-10-227-568-1607	Sequence 1607, Ap
550	16.4	1.5	50	6	US-10-131-827-2497	Sequence 2497, Ap	623	16.2	1.5	48	6	US-10-227-562-1820	Sequence 1820, Ap
551	16.4	1.5	50	6	US-10-131-827-2919	Sequence 2919, Ap	624	16.2	1.5	48	7	US-10-156-306-7452	Sequence 7452, Ap
552	16.4	1.5	50	6	US-10-131-827-3451	Sequence 3451, Ap	c 625	16.2	1.5	49	6	US-10-229-335-23	Sequence 23, Appli
c 553	16.4	1.5	50	6	US-10-131-827-3803	Sequence 3803, Ap	c 626	16.2	1.5	50	1	PCT-US02-25942-10370	Sequence 10370, A
554	16.4	1.5	50	6	US-10-131-827-4572	Sequence 4572, Ap	c 627	16.2	1.5	50	1	PCT-US02-25942-10372	Sequence 10372, A
555	16.4	1.5	50	6	US-10-131-827-5212	Sequence 5212, Ap	628	16.2	1.5	50	5	US-09-504-231B-2910	Sequence 2910, Ap
c 556	16.4	1.5	50	6	US-10-131-827-7683	Sequence 7683, Ap	629	16.2	1.5	50	5	US-09-504-231B-2913	Sequence 2913, Ap
557	16.4	1.5	50	6	US-10-131-827-7919	Sequence 7919, Ap	630	16.2	1.5	50	5	US-09-504-231B-2964	Sequence 2964, Ap
c 558	16.4	1.5	50	6	US-10-131-827-8004	Sequence 8004, Ap	631	16.2	1.5	50	5	US-09-504-231B-3008	Sequence 3008, Ap
559	16.4	1.5	50	7	US-10-011-931-26	Sequence 26, Appl	632	16.2	1.5	50	5	US-09-504-231B-3089	Sequence 3089, Ap
c 560	16.2	1.5	21	1	PCT-US01-44838-907	Sequence 907, App	633	16.2	1.5	50	5	US-09-274-553D-2910	Sequence 2910, Ap
561	16.2	1.5	22	6	US-10-074-566-30	Sequence 30, Appl	634	16.2	1.5	50	5	US-09-274-553D-2913	Sequence 2913, Ap
562	16.2	1.5	25	5	US-09-956-604-27614	Sequence 27614, A	635	16.2	1.5	50	5	US-09-274-553D-2964	Sequence 2964, Ap
563	16.2	1.5	25	5	US-09-956-604-52152	Sequence 52152, A	636	16.2	1.5	50	5	US-09-274-553D-3008	Sequence 3008, Ap
564	16.2	1.5	25	5	US-09-956-604-52171	Sequence 52171, A	637	16.2	1.5	50	5	US-09-274-553D-3089	Sequence 3089, Ap
c 565	16.2	1.5	25	5	US-09-956-604-52312	Sequence 52312, A	c 638	16.2	1.5	50	5	US-09-718-321A-100	Sequence 100, App
c 566	16.2	1.5	25	5	US-09-956-604-52321	Sequence 52321, A	639	16.2	1.5	50	5	US-09-718-321A-991	Sequence 991, App
567	16.2	1.5	25	5	US-09-396-1966-1800	Sequence 1800, Ap	640	16.2	1.5	50	5	US-09-611-931A-2910	Sequence 2910, Ap
c 568	16.2	1.5	25	5	US-09-396-1966-6603	Sequence 6603, Ap	641	16.2	1.5	50	5	US-09-611-931A-2913	Sequence 2913, Ap
569	16.2	1.5	25	5	US-09-396-1966-49457	Sequence 49457, A	642	16.2	1.5	50	5	US-09-611-931A-2964	Sequence 2964, Ap
570	16.2	1.5	25	5	US-09-396-1966-65282	Sequence 65282, A	643	16.2	1.5	50	5	US-09-611-931A-3008	Sequence 3008, Ap
571	16.2	1.5	25	5	US-09-956-604A-27614	Sequence 27614, A	644	16.2	1.5	50	6	US-10-131-831-39	Sequence 39, Appl
572	16.2	1.5	25	5	US-09-956-604A-52152	Sequence 52152, A	645	16.2	1.5	50	6	US-10-131-831-263	Sequence 263, App
573	16.2	1.5	25	5	US-09-956-604A-52171	Sequence 52171, A	646	16.2	1.5	50	6	US-10-131-831-463	Sequence 463, App
c 574	16.2	1.5	25	5	US-09-956-604A-52312	Sequence 52312, A	647	16.2	1.5	50	6	US-10-131-831-463	Sequence 463, App
c 575	16.2	1.5	25	5	US-09-956-604A-52321	Sequence 52321, A	648	16.2	1.5	50	6	US-10-131-831-1007	Sequence 1007, Ap
576	16.2	1.5	27	5	US-09-868-131-14	Sequence 14, Appl	649	16.2	1.5	50	6	US-10-131-831-1255	Sequence 1255, Ap
577	16.2	1.5	27	5	US-09-868-131A-14	Sequence 14, Appl	c 650	16.2	1.5	50	6	US-10-131-831-1836	Sequence 1836, Ap
578	16.2	1.5	29	6	US-10-216-484-24	Sequence 24, Appl	651	16.2	1.5	50	6	US-10-131-831-2042	Sequence 2042, Ap
579	16.2	1.5	30	6	US-10-199-820-214	Sequence 214, App	c 652	16.2	1.5	50	6	US-10-131-831-2177	Sequence 2177, Ap
c 580	16.2	1.5	31	1	PCT-US02-25943-7777	Sequence 7777, Ap	653	16.2	1.5	50	6	US-10-131-831-2841	Sequence 2841, Ap
581	16.2	1.5	31	6	US-10-227-565-7777	Sequence 7777, Ap	654	16.2	1.5	50	6	US-10-131-831-2875	Sequence 2875, Ap
c 582	16.2	1.5	31	7	US-10-138-674-20131	Sequence 20131, A	655	16.2	1.5	50	6	US-10-131-831-3047	Sequence 3047, Ap
c 583	16.2	1.5	34	1	PCT-US02-25943-16875	Sequence 16875, A	656	16.2	1.5	50	6	US-10-131-831-3139	Sequence 3139, Ap
c 584	16.2	1.5	34	1	PCT-US02-25943-16942	Sequence 16942, A	c 657	16.2	1.5	50	6	US-10-131-831-3770	Sequence 3770, Ap
c 585	16.2	1.5	34	1	PCT-US02-25943-16943	Sequence 16943, A	658	16.2	1.5	50	6	US-10-131-831-4011	Sequence 4011, Ap
c 586	16.2	1.5	34	6	US-10-227-565-16875	Sequence 16875, A	659	16.2	1.5	50	6	US-10-131-831-5576	Sequence 5576, Ap
c 587	16.2	1.5	34	6	US-10-227-565-16942	Sequence 16942, A	660	16.2	1.5	50	6	US-10-131-831-7475	Sequence 7475, Ap
c 588	16.2	1.5	34	6	US-10-227-565-16943	Sequence 16943, A	661	16.2	1.5	50	6	US-10-131-827-39	Sequence 39, Appl
c 589	16.2	1.5	34	7	US-10-027-632-52394	Sequence 52394, A	c 662	16.2	1.5	50	6	US-10-131-827-263	Sequence 263, App
590	16.2	1.5	38	1	PCT-US02-25942-12876	Sequence 12876, A	663	16.2	1.5	50	6	US-10-131-827-463	Sequence 463, App
591	16.2	1.5	38	5	US-09-745-237A-2558	Sequence 2558, Ap	c 664	16.2	1.5	50	6	US-10-131-827-1007	Sequence 1007, Ap
592	16.2	1.5	38	6	US-10-227-567-12876	Sequence 12876, A	665	16.2	1.5	50	6	US-10-131-827-1255	Sequence 1255, Ap
c 593	16.2	1.5	38	7	US-10-138-674-9824	Sequence 9824, Ap	c 666	16.2	1.5	50	6	US-10-131-827-1836	Sequence 1836, Ap
594	16.2	1.5	38	7	US-10-156-306-5713	Sequence 5713, Ap	c 667	16.2	1.5	50	6	US-10-131-827-2042	Sequence 2042, Ap
c 595	16.2	1.5	39	6	US-10-204-362-11	Sequence 11, Appl	c 668	16.2	1.5	50	6	US-10-131-827-2177	Sequence 2177, Ap
596	16.2	1.5	39	7	US-10-027-632-58442	Sequence 58442, A	669	16.2	1.5	50	6	US-10-131-827-2841	Sequence 2841, Ap
c 597	16.2	1.5	40	5	US-09-548-588C-248	Sequence 248, App	670	16.2	1.5	50	6	US-10-131-827-2875	Sequence 2875, Ap
598	16.2	1.5	40	7	US-10-109-349A-90	Sequence 90, Appl	671	16.2	1.5	50	6	US-10-131-827-3047	Sequence 3047, Ap
c 599	16.2	1.5	41	1	PCT-US02-25942-11615	Sequence 11615, A	c 672	16.2	1.5	50	6	US-10-131-827-3139	Sequence 3139, Ap
c 600	16.2	1.5	41	6	US-10-088-966-281	Sequence 281, App	c 673	16.2	1.5	50	6	US-10-131-827-3770	Sequence 3770, Ap
c 601	16.2	1.5	41	6	US-10-227-567-11615	Sequence 11615, A	674	16.2	1.5	50	6	US-10-131-827-4011	Sequence 4011, Ap
602	16.2	1.5	42	5	US-09-726-649-110	Sequence 110, App	675	16.2	1.5	50	6	US-10-131-827-5576	Sequence 5576, Ap
603	16.2	1.5	43	1	PCT-US02-25943-52475	Sequence 52475, A	676	16.2	1.5	50	6	US-10-131-827-7475	Sequence 7475, Ap
604	16.2	1.5	43	6	US-10-227-565-52475	Sequence 52475, A	c 677	16.2	1.5	50	6	US-10-227-567-10370	Sequence 10370, A
605	16.2	1.5	45	1	PCT-US02-25942-10371	Sequence 10371, A	c 678	16.2	1.5	50	6	US-10-227-567-10372	Sequence 10372, A
c 606	16.2	1.5	45	6	US-10-018-453-6	Sequence 6, Appli	679	16	1.5	25	5	US-09-956-604-6304	Sequence 6304, Ap
c 607	16.2	1.5	45	6	US-10-018-453-12	Sequence 12, Appl	c 680	16	1.5	25	5	US-09-956-604-9732	Sequence 9732, Ap
c 608	16.2	1.5	45	6	US-10-018-453-13	Sequence 13, Appl	681	16	1.5	25	5	US-09-956-604-65912	Sequence 65912, A
c 609	16.2	1.5	45	6	US-10-018-453-14	Sequence 14, Appl	682	16	1.5	25	5	US-09-956-604-81349	Sequence 81349, A

829	16	1.5	50	5	US-09-611-931A-2935	Sequence 2935, Ap	902	15.8	1.5	25	5	US-09-956-604A-6096	Sequence 6096, Ap
830	16	1.5	50	6	US-10-131-831-259	Sequence 259, App	903	15.8	1.5	25	5	US-09-956-604A-27615	Sequence 27615, A
831	16	1.5	50	6	US-10-131-831-1010	Sequence 1010, Ap	904	15.8	1.5	25	5	US-09-956-604A-27616	Sequence 27616, A
832	16	1.5	50	6	US-10-131-831-1011	Sequence 1011, Ap	c 905	15.8	1.5	25	5	US-09-956-604A-98262	Sequence 98262, A
833	16	1.5	50	6	US-10-131-831-1572	Sequence 1572, Ap	906	15.8	1.5	25	5	US-09-956-604A-98283	Sequence 98283, A
834	16	1.5	50	6	US-10-131-831-1711	Sequence 1711, Ap	907	15.8	1.5	25	5	US-09-956-604A-99525	Sequence 99525, A
835	16	1.5	50	6	US-10-131-831-2289	Sequence 2289, Ap	c 908	15.8	1.5	27	1	PCT-US02-25941-2749	Sequence 2749, Ap
836	16	1.5	50	6	US-10-131-831-2422	Sequence 2422, Ap	909	15.8	1.5	27	1	PCT-US02-25941-2750	Sequence 2750, Ap
837	16	1.5	50	6	US-10-131-831-2958	Sequence 2958, Ap	c 910	15.8	1.5	27	6	US-10-109-812-48	Sequence 48, Appl
838	16	1.5	50	6	US-10-131-831-3227	Sequence 3227, Ap	911	15.8	1.5	28	5	US-09-975-553-22	Sequence 22, Appl
839	16	1.5	50	6	US-10-131-831-4883	Sequence 4883, Ap	912	15.8	1.5	28	5	US-09-687-476-22	Sequence 22, Appl
840	16	1.5	50	6	US-10-131-831-5672	Sequence 5672, Ap	913	15.8	1.5	28	5	US-09-687-372-22	Sequence 22, Appl
841	16	1.5	50	6	US-10-131-831-6027	Sequence 6027, Ap	914	15.8	1.5	28	5	US-09-687-477-22	Sequence 22, Appl
842	16	1.5	50	6	US-10-131-831-6029	Sequence 6029, Ap	915	15.8	1.5	28	6	US-10-125-772-13	Sequence 13, Appl
843	16	1.5	50	6	US-10-131-831-6044	Sequence 6044, Ap	916	15.8	1.5	28	6	US-10-125-772-13	Sequence 13, Appl
844	16	1.5	50	6	US-10-131-831-6328	Sequence 6328, Ap	917	15.8	1.5	28	6	US-10-125-772-13	Sequence 13, Appl
845	16	1.5	50	6	US-10-131-831-6336	Sequence 6336, Ap	918	15.8	1.5	28	7	US-10-016-496-17	Sequence 17, Appl
846	16	1.5	50	6	US-10-131-831-6444	Sequence 6444, Ap	c 919	15.8	1.5	32	1	PCT-US02-25943-12179	Sequence 12179, A
847	16	1.5	50	6	US-10-131-831-6559	Sequence 6559, Ap	c 920	15.8	1.5	32	1	PCT-US02-25943-12180	Sequence 12180, A
848	16	1.5	50	6	US-10-131-831-6634	Sequence 6634, Ap	921	15.8	1.5	32	6	US-10-211-798-1255	Sequence 1255, Ap
849	16	1.5	50	6	US-10-131-831-6834	Sequence 6834, Ap	c 922	15.8	1.5	32	6	US-10-227-565-12179	Sequence 12179, A
850	16	1.5	50	6	US-10-131-831-6949	Sequence 6949, Ap	c 923	15.8	1.5	32	6	US-10-227-565-12180	Sequence 12180, A
851	16	1.5	50	6	US-10-131-831-7024	Sequence 7024, Ap	924	15.8	1.5	33	5	US-09-227-718B-7	Sequence 7, Appl
852	16	1.5	50	6	US-10-131-831-7175	Sequence 7175, Ap	c 925	15.8	1.5	33	7	US-10-133-226-9	Sequence 9, Appl
853	16	1.5	50	6	US-10-131-831-7192	Sequence 7192, Ap	c 926	15.8	1.5	34	6	US-10-216-484-12	Sequence 12, Appl
854	16	1.5	50	6	US-10-131-831-7884	Sequence 7884, Ap	927	15.8	1.5	36	5	US-09-504-231B-2751	Sequence 2751, Ap
855	16	1.5	50	6	US-10-131-831-7988	Sequence 7988, Ap	928	15.8	1.5	36	5	US-09-274-553D-2751	Sequence 2751, Ap
856	16	1.5	50	6	US-10-131-831-8002	Sequence 8002, Ap	929	15.8	1.5	36	5	US-09-611-931A-2751	Sequence 2751, Ap
857	16	1.5	50	6	US-10-131-831-8049	Sequence 8049, Ap	c 930	15.8	1.5	36	6	US-10-170-390-15	Sequence 15, Appl
858	16	1.5	50	6	US-10-131-827-259	Sequence 259, App	c 931	15.8	1.5	36	7	US-10-138-674-16442	Sequence 16442, A
859	16	1.5	50	6	US-10-131-827-1010	Sequence 1010, Ap	c 932	15.8	1.5	37	1	PCT-US02-12636-145	Sequence 145, App
860	16	1.5	50	6	US-10-131-827-1011	Sequence 1011, Ap	c 933	15.8	1.5	37	1	US-10-126-103-145	Sequence 145, App
861	16	1.5	50	6	US-10-131-827-1572	Sequence 1572, Ap	c 934	15.8	1.5	37	7	US-10-138-674-20721	Sequence 20721, A
862	16	1.5	50	6	US-10-131-827-1711	Sequence 1711, Ap	c 935	15.8	1.5	38	1	PCT-US02-25944-2628	Sequence 2628, Ap
863	16	1.5	50	6	US-10-131-827-2289	Sequence 2289, Ap	c 936	15.8	1.5	38	5	US-09-745-237A-1854	Sequence 1854, Ap
864	16	1.5	50	6	US-10-131-827-2422	Sequence 2422, Ap	937	15.8	1.5	38	5	US-09-745-237A-1867	Sequence 1867, Ap
865	16	1.5	50	6	US-10-131-827-2958	Sequence 2958, Ap	938	15.8	1.5	38	5	US-09-745-237A-2006	Sequence 2006, Ap
866	16	1.5	50	6	US-10-131-827-3227	Sequence 3227, Ap	939	15.8	1.5	38	5	US-09-745-237A-2150	Sequence 2150, Ap
867	16	1.5	50	6	US-10-131-827-4883	Sequence 4883, Ap	940	15.8	1.5	38	5	US-09-745-237A-2325	Sequence 2325, Ap
868	16	1.5	50	6	US-10-131-827-5672	Sequence 5672, Ap	941	15.8	1.5	38	5	US-09-745-237A-2371	Sequence 2371, Ap
869	16	1.5	50	6	US-10-131-827-6027	Sequence 6027, Ap	942	15.8	1.5	38	5	US-09-745-237A-2451	Sequence 2451, Ap
870	16	1.5	50	6	US-10-131-827-6029	Sequence 6029, Ap	943	15.8	1.5	38	5	US-09-745-237A-2491	Sequence 2491, Ap
871	16	1.5	50	6	US-10-131-827-6044	Sequence 6044, Ap	c 944	15.8	1.5	38	5	US-09-745-237A-2570	Sequence 2570, Ap
872	16	1.5	50	6	US-10-131-827-6328	Sequence 6328, Ap	c 945	15.8	1.5	38	5	US-09-730-2898-2349	Sequence 2349, Ap
873	16	1.5	50	6	US-10-131-827-6336	Sequence 6336, Ap	946	15.8	1.5	38	5	US-09-730-2898-2662	Sequence 2662, Ap
874	16	1.5	50	6	US-10-131-827-6444	Sequence 6444, Ap	c 947	15.8	1.5	38	5	US-09-693-755-117	Sequence 117, App
875	16	1.5	50	6	US-10-131-827-6559	Sequence 6559, Ap	c 948	15.8	1.5	38	5	US-09-780-164-1256	Sequence 1256, Ap
876	16	1.5	50	6	US-10-131-827-6634	Sequence 6634, Ap	c 949	15.8	1.5	38	6	US-10-227-564-2628	Sequence 2628, Ap
877	16	1.5	50	6	US-10-131-827-6834	Sequence 6834, Ap	950	15.8	1.5	38	7	US-10-138-674-9499	Sequence 9499, Ap
878	16	1.5	50	6	US-10-131-827-6949	Sequence 6949, Ap	c 951	15.8	1.5	38	7	US-10-138-674-10081	Sequence 10081, A
879	16	1.5	50	6	US-10-131-827-7024	Sequence 7024, Ap	952	15.8	1.5	38	7	US-10-138-674-10169	Sequence 10169, A
880	16	1.5	50	6	US-10-131-827-7175	Sequence 7175, Ap	953	15.8	1.5	38	7	US-10-138-674-10308	Sequence 10308, A
881	16	1.5	50	6	US-10-131-827-7192	Sequence 7192, Ap	954	15.8	1.5	38	7	US-10-138-674-10310	Sequence 10310, A
882	16	1.5	50	6	US-10-131-827-7884	Sequence 7884, Ap	955	15.8	1.5	38	7	US-10-138-674-10577	Sequence 10577, A
883	16	1.5	50	6	US-10-131-827-7988	Sequence 7988, Ap	956	15.8	1.5	38	7	US-10-138-674-11053	Sequence 11053, A
884	16	1.5	50	6	US-10-131-827-8002	Sequence 8002, Ap	957	15.8	1.5	38	7	US-10-138-674-11208	Sequence 11208, A
885	16	1.5	50	6	US-10-131-827-8049	Sequence 8049, Ap	958	15.8	1.5	38	7	US-10-138-674-11772	Sequence 11772, A
886	16	1.5	50	6	US-10-227-567-7643	Sequence 7643, Ap	959	15.8	1.5	38	7	US-10-138-674-12787	Sequence 12787, A
887	15.8	1.5	22	1	PCT-US02-09776-7	Sequence 7, Appl	960	15.8	1.5	38	7	US-10-138-674-13031	Sequence 13031, A
888	15.8	1.5	25	5	US-09-956-604-6096	Sequence 6096, Ap	c 961	15.8	1.5	38	7	US-10-138-674-13294	Sequence 13294, A
889	15.8	1.5	25	5	US-09-956-604-27615	Sequence 27615, A	962	15.8	1.5	38	7	US-10-138-674-13521	Sequence 13521, A
890	15.8	1.5	25	5	US-09-956-604-27616	Sequence 27616, A	c 963	15.8	1.5	38	7	US-10-138-674-13732	Sequence 13732, A
891	15.8	1.5	25	5	US-09-956-604-98262	Sequence 98262, A	964	15.8	1.5	38	7	US-10-138-674-13770	Sequence 13770, A
892	15.8	1.5	25	5	US-09-956-604-98283	Sequence 98283, A	c 965	15.8	1.5	38	7	US-10-138-674-13848	Sequence 13848, A
893	15.8	1.5	25	5	US-09-956-604-99525	Sequence 99525, A	966	15.8	1.5	38	7	US-10-138-674-14009	Sequence 14009, A
894	15.8	1.5	25	5	US-09-396-196G-7824	Sequence 7824, Ap	967	15.8	1.5	38	7	US-10-138-674-14244	Sequence 14244, A
895	15.8	1.5	25	5	US-09-396-196G-26905	Sequence 26905, A	968	15.8	1.5	38	7	US-10-138-674-14364	Sequence 14364, A
896	15.8	1.5	25	5	US-09-396-196G-28443	Sequence 28443, A	969	15.8	1.5	38	7	US-10-138-674-14465	Sequence 14465, A
897	15.8	1.5	25	5	US-09-396-196G-4037	Sequence 4037, A	970	15.8	1.5	38	7	US-10-138-674-14508	Sequence 14508, A
898	15.8	1.5	25	5	US-09-396-196G-48964	Sequence 48964, A	971	15.8	1.5	38	7	US-10-138-674-14597	Sequence 14597, A
899	15.8	1.5	25	5	US-09-396-196G-48965	Sequence 48965, A	972	15.8	1.5	38	7	US-10-138-674-14622	Sequence 14622, A
900	15.8	1.5	25	5	US-09-396-196G-83518	Sequence 83518, A	c 973	15.8	1.5	38	7	US-10-138-674-15652	Sequence 15652, A
901	15.8	1.5	25	5	US-09-396-196G-117394	Sequence 117394, A	974	15.8	1.5	38	7	US-10-138-674-15741	Sequence 15741, A

; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5838
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-5838

Query Match 1.9%; Score 20.2; DB 6; Length 50;
Best Local Similarity 68.3%; Pred. No. 5.7e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 1028 TTGTTCTCCCAATGAAGATCAAGTCAGCTTCCTGAAG 1068
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 47 TTGTGCGTCCACAAAGACAACCTAGGAGAGGATCCAGAAG 7

RESULT 5
US-10-131-831-4009
; Sequence 4009, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4009
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4009

Query Match 1.88; Score 19.8; DB 6; Length 50;
Best Local Similarity 69.2%; Pred. No. 7.6e+04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 804 GATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTGT 842
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7 GTTTTCGTTCTGCCCTTTGGACCTGTGTTGTTT 45

RESULT 6
US-10-131-831-4982
; Sequence 4982, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4982
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4982

Query Match 1.8%; Score 19.8; DB 6; Length 50;
Best Local Similarity 69.2%; Pred. No. 7.6e+04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 804 GATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTGT 842
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7 GTTTTCGTTCTGCCCTTTGGACCTGTGTTGTTT 45

RESULT 7
US-10-131-827-4009
; Sequence 4009, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4009
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-4009

Query Match 1.8%; Score 19.8; DB 6; Length 50;
Best Local Similarity 69.2%; Pred. No. 7.6e+04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 804 GATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTGT 842
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7 GTTTTCGTTCTGCCCTTTGGACCTGTGTTGTTT 45

RESULT 8
US-10-131-827-4982
; Sequence 4982, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4982
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens


```

; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Mo
US-09-611-931A-3044

Query Match 1.8%; Score 19.2; DB 5; Length 50;
Best Local Similarity 47.9%; Pred. No. 1.2e+05;
Matches 23; Conservative 7; Mismatches 18; Indels 0; Gaps 0;

QY 723 AGTGCCCAAGCTAGCTACTGTGAGCAGACATGTTGTTGGCAATGCTGCTGCT 770
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2 AGUUGAAGCCCRACACAGAAACACACAGUUGUGGACAUUACCUGG 49

RESULT 15
US-10-131-831-860
; Sequence 860, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Lv, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131.831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 860
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-860

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 210 GCTTGGCATCACAAATTACATGCTCCCAAGAGA 241
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 19 GCTAAGATACAAATTAGATGCCCAAGCGA 50

RESULT 16
US-10-131-831-1222
; Sequence 1222, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Lv, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131.831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1222
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-1222

```

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 67.5%; Pred. No. 1.2e+05;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 1039 CATAAGAGATCAAGTCAAGCATCTCTGAGCCGAGATCG 1078
Db 1 CATGAAGCTCTCAAGTCTGCATCCTGAGGATCCAGATGG 40

RESULT 17
US-10-131-831-3438
; Sequence 3438, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3438
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-3438

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 210 GCTTGGCATCAATACATGCTCCCAAGAGA 241
Db 19 GCTAGAATAACAATTAGATGCCCAAGCGA 50

RESULT 18
US-10-131-831-4105
; Sequence 4105, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4105
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4105

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 210 GCTTGGCATCAATACATGCTCCCAAGAGA 241
Db 19 GCTAGAATAACAATTAGATGCCCAAGCGA 50

RESULT 19
US-10-131-827-860
; Sequence 860, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 860
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-860

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 210 GCTTGGCATCAATACATGCTCCCAAGAGA 241
Db 19 GCTAGAATAACAATTAGATGCCCAAGCGA 50

RESULT 20
US-10-131-827-1222
; Sequence 1222, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1222
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-1222

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 67.5%; Pred. No. 1.2e+05;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 1039 CATAAGAGATCAAGTCAAGCATCTCTGAGCCGAGATCG 1078
Db 1 CATGAAGCTCTCAAGTCTGCATCCTGAGGATCCAGATGG 40

```

; APPLICANT: Sullenger, Bruce
; APPLICANT: Rusconi, Christopher
; TITLE OF INVENTION: RNA APAMERS AND METHODS FOR IDENTIFYING THE SAME
; FILE REFERENCE: 180/124/2
; CURRENT APPLICATION NUMBER: US/09/963,827B
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,654
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 86
; LENGTH: 40
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: RNA aptamer
; NAME/KEY: misc_feature
; LOCATION: (1)..(40)
; OTHER INFORMATION: RNA aptamer
US-09-963-827B-86

Query Match 1.7%; Score 19; DB 5; Length 40;
Best Local Similarity 71.4%; Pred. No. 1.2e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 763 GTGCTGCTGATGAGCGCCAGATTGGAGAAGG 797
Db 36 GTGATGCTGCTGAGCGGCCAAGTTGGCGGAGG 2

RESULT 24
US-10-131-831-3756/c
; Sequence 3756, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3756
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-3756

Query Match 1.7%; Score 19; DB 6; Length 50;
Best Local Similarity 65.1%; Pred. No. 1.3e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 149 TTTTGGCTATCAACTCGCCAGAGGTAATGATTAATTTCTT 191
Db 49 TGTGTGGGAATCTACAATTGCAAAAGTGGTTCAAAGTCATTTCTT 7

RESULT 25
US-10-131-831-4621
; Sequence 4621, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc

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;
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4621
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4621

Query Match 1.7%; Score 19; DB 6; Length 50;
Best Local Similarity 71.4%; Pred. No. 1.3e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 4 TATGTGGACTGGATTAAAGGACACCATTAGCTGCCAA 38

Search completed: October 22, 2002, 18:59:50
Job time : 355 secs